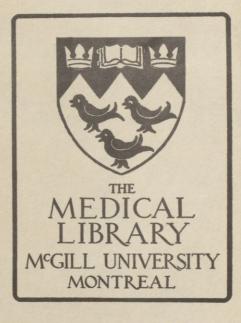
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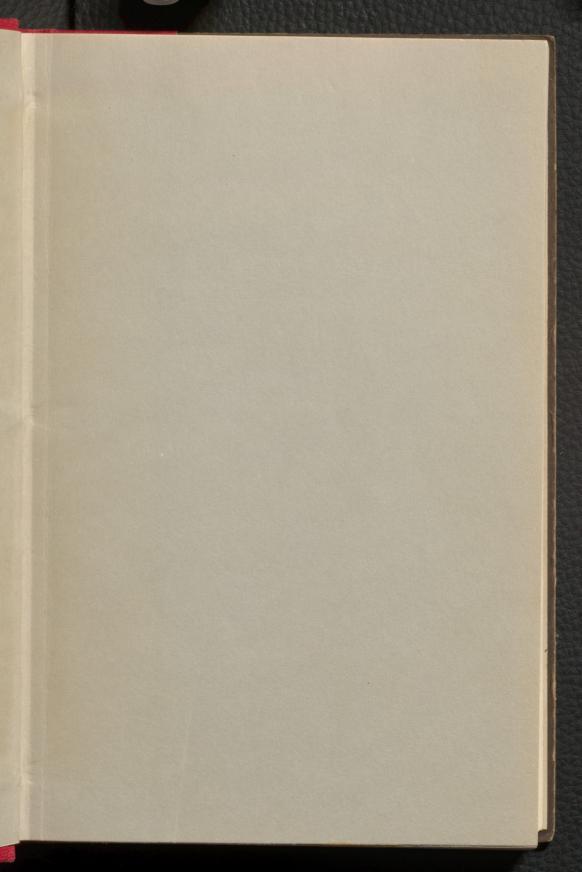
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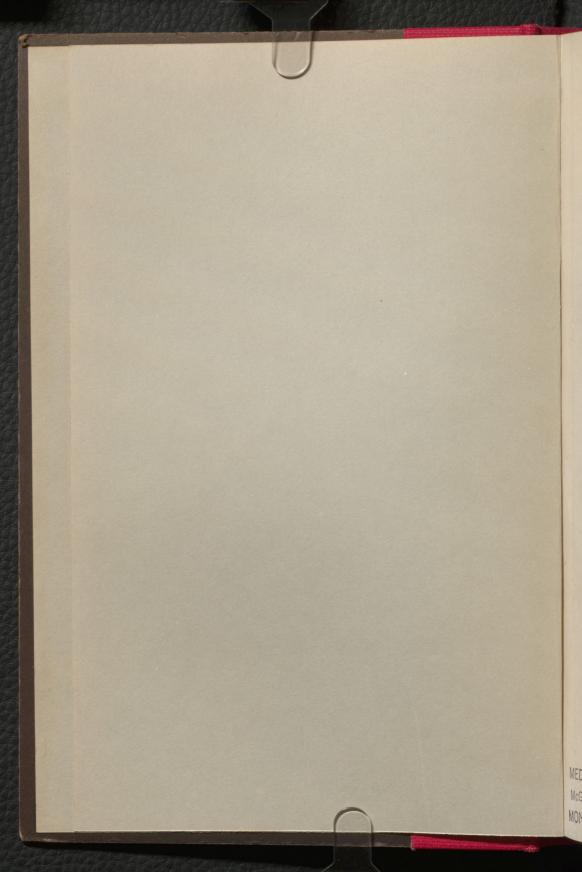
THE MEDICAL LIBRARY OF McGILL UNIVERSITY

by

FACULTY OF MEDICINE







McGill University



Montreal

Faculty of Medicine

MEDICAL LIBRARY, McGILL UNIVERSITY, MONTREAL, Canada

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine (Undergraduate courses)

Faculty of Medicine (Postgraduate courses)

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Library School

Institute of Education

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture, and School of Household Science)

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. Limited distribution.)

The Calendar (Available for distribution only to libraries and officials of certain institutions.)

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McGill University

FACULTY OF MEDICINE

ADMINISTRATIVE OFFICERS

F. CYRIL JAMES, Chevalier de la Légion d'Honneur, B.Com., M.A., Ph.D., D.Sc., D. de l'U., D.C.L., LL.D., F.R.S.C. Principal

DAVID L. THOMSON, M.A., Ph.D., D.Sc., LL.D., F.C.I.C., F.R.S.C.

Vice-Principal

LLOYD G. STEVENSON, B.A., M.D., Ph.D.

S. M. BANFILL, M.B.E., B.A., M.D., C.M.

COLIN M. McDougall, D.S.O., B.A. Registrar

G. A. GRIMSON, B.Com.

RICHARD PENNINGTON, B.A., Lib.Dip. University Librarian

Dean of the Faculty

Secretary of the Faculty

Comptroller

Special Announcements are available for the School of Physical and Occupational Therapy, and the School for Graduate Nurses.

A complete list of the teaching staff of the University, including the Faculty of Medicine, is printed as a separate Announcement, which may be obtained from the Registrar's Office.

Faculty of Medicine

The one hundred and twenty-eighth session of the Faculty will open on September 2nd, 1960, for students of all years.

Students may enter the Faculty of Medicine in one of two ways. A limited number will be admitted from high school to the Double Course in Science and Medicine. Most will be admitted from college to the four-year medical course.

A. DOUBLE COURSE IN SCIENCE AND MEDICINE

REQUIREMENTS FOR ENTRANCE

Students of high calibre and first-rate academic attainment will be admitted to the First year of this programme after successfully completing Junior Matriculation. They will be enrolled directly in the Faculty of Medicine and at the same time in the Faculty of Arts and Science. In exceptional circumstances students will be admitted to the Second year of the seven-year course when they have obtained high standing in Senior Matriculation. A joint committee of the two Faculties concerned will select the successful candidates.

DESCRIPTION OF COURSE

Duration: Seven years from Junior Matriculation, six years from Senior Matriculation.

Required Subjects: Physics, Chemistry, Organic Chemistry, Biology and one course in English, together with the standard medical curriculum.

Elective Subjects: Eleven additional courses in Arts and Science as approved by the Dean of the Faculty of Arts and Science and the Dean of the Faculty of Medicine.

Organization: Medical courses will begin before the Science courses are completed and courses in the Faculty of Arts and Science will continue for two years after students begin the study of Medicine.

Degrees: B.Sc. (after 5 years), M.D., C.M. (after 7 years).

APPLICATION FOR ADMISSION

It is recommended that application should be made by June 1st, 1960 to the Registrar of McGill University, Montreal 2, Canada. Application forms may be obtained from the Registrar's Office.

B. FOUR-YEAR COURSE IN MEDICINE

REQUIREMENTS FOR ENTRANCE

1. (a) Total Academic Credits:

The minimum requirement for admission to the medical course is the satisfactory completion of three full years of study in a recognized college or Faculty of Arts and Science (or the equivalent thereof).

(b) Scientific Requirements:

In the scientific branches, certain subjects are specifically required:

Chemistry, two full courses, including General Chemistry and
Organic Chemistry, with laboratory work.

Physics, one year with laboratory work.

Biology, or Zoology, one year with laboratory work. (Of this, a half year must consist of Zoology.)

(c) Cultural Requirements:

These must be selected in such a way as to be in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. These would commonly include credits in English Literature and Composition and in Mathematics. It is advisable for each applicant to present evidence of such preparation.

- (d) All candidates for admission to the Medical Faculty are required to take the Medical College Admission Test conducted by the Psychological Corporation or furnish a satisfactory explanation of why they are unable to do so.
- 2. In selecting courses, in addition to the specific requirements listed above, the intending medical student should plan his pre-medical course as a whole, and in accordance with a definite educational objective. Emphasis should be laid on the broad educational value and the intellectual training afforded, rather than on the factual content of such pre-medical curricula; the student is therefore advised to plan his course in such a way as to provide more than elementary training in some definite field of learning which appeals to him; this major field may be selected from the Natural or the Social Sciences or the Humanities. Certain subjects which though not essential have been found valuable in medical study, and which may be included as electives if the curriculum in the major field permits, are Psychology, Sociology, and Genetics.

In general, students are advised not to anticipate medical school courses in Physiology, Histology, Bacteriology, and Biochemistry at the expense of a fundamental training as outlined above.

On the other hand, for students who desire a preparation in excess of the minimum requirements, a considerable degree of specialization in the sciences, such as Honours graduation, or a Master's degree, in Physics, Chemistry, Biochemistry, Biology, Physiology, or Bacteriology, may prove to be desirable and advantageous.

The students' attention is called to the memorandum printed in the Announcement of the Faculty of Arts and Science, for the guidance of students who wish to enter Medicine.

Candidates for admission shall furnish evidence that they have satisfied the matriculation requirements of the Licensing Body in the region where they wish to practise. This provision applies to Canadian candidates only.

EQUIVALENT STANDING

A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official Statement of his preliminary education and of the medical course he has followed and the standing he has obtained. This should be accompanied by a calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

The equivalent courses of study in schools accepted by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the accepted school, but the student may be required to pass such examinations, individual or comprehensive, as may be required by the Faculty.

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Secretary of the Faculty.

As the number of students in each class is limited, application should be made early and in any case not later than January 1st. Each application must be accompanied by a non-returnable fee of \$5.00 in the form of a cheque or money order payable to McGill University.

A fee of \$50.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee

will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Secretary of the Faculty, when possible, is advisable.

REGISTRATION

Students in the Faculty of Medicine will register at the Registrar's Office in Dawson Hall on Friday, September 2nd or Tuesday, September 6th, 1960. Those who register late will be required to pay a late registration fee of \$5.00 if they register during the first week of the session and \$10.00 if they register during the second. The fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

FEES

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The University reserves the right to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions described in the General Information Pamphlet.

UNIVERSITY FEES

1. DOUBLE COURSE IN SCIENCE AND MEDICINE		
First and Second years. Third to Seventh years.	tees are	\$475.00 \$600.00
2. FOUR-YEAR COURSE IN MEDICINE		
Annual fee (including Students' Society and Medica Students' Journal fees)	CPES	\$600.00
Students in the Fourth year also pay for meals at the	trabute it	
Royal Victoria Montreal Maternity Hospital		\$ 5.00
If paid in two instalments:		
First year only—		
First instalment, on registration	\$300.00	
Instalment fee	2.50	
	dealung	
Less half deposit	302.50	0077 50
Dess hair deposit	25.00	\$277.50
Second instalment, January 15th	INDIA STORE	\$277.50
Second and Third years, each instalment		\$302.50
Fourth year, each instalment		\$305.00

MEDICINE

- 3. REPEATING STUDENTS
 Students repeating a year pay full fees.

DATES OF PAYMENT

Fees are due and payable at the Chief Accountant's Office, Dawson Hall, between the hours of 9 a.m. and 4 p.m. on the following dates.

Friday, September 2nd to Friday, September 9th, or, if desired, fees may be remitted by mail before the above dates. The second instalment of tuition fees is due and payable on January 15th. An additional \$2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the late payment fee.

Immediately after the prescribed dates for the payment of fees the Chief Accountant will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Dean will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

All fees are payable in Canadian currency.

For further information and for a list of special fees see the General Information Pamphlet included in this Announcement.

MICROSCOPES

Each student, on beginning his studies, is required to provide himself with a first-class microscope for laboratory and private study throughout his course. The microscope must be of substantial construction and be provided, as a minimum, with the following accessories: 2/3, 1/6, and 1/12 oil immersion objective, and a substage condenser. Such an instrument will last a lifetime and is an essential part of the equipment of a practitioner in medicine. Suitable microscopes may be secured through local dealers. The University does not rent microscopes to medical students.

BOARD AND RESIDENCE

For details of board and residence and an estimate of expenses, see the General Information Pamphlet included in this Announcement.

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HEALTH SERVICE

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For details of the Health Service and Medical Examinations see the General Information Pamphlet included in this Announcement.

COURSES FOR THE DEGREE OF M.D., C.M.

The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including

- a. four years of medical study in the University leading to the degree of M.D., C.M.; and
- b. one year of interneship in an approved hospital,

or

one year of further medical study in the Faculty of Medicine of McGill University or at another medical school approved by it.

While the Faculty Administration exercises a general supervision of arrangements for interneships, the Faculty of Medicine assumes no responsibility to provide an interneship for any student.

A certificate that his medical education is completed and that he is eligible to sit for the examination of a licensing board shall not be issued to any graduate until the University is in possession of satisfactory evidence that he has completed the full requirements.

There are four sessions of thirty-six weeks each exclusive of examination periods. The sessions usually begin the first Tuesday after the first Monday in September (Labour Day), and continue until the first week of June.

The academic session is divided into three terms of 12 weeks each in all sessions. The minimal period of study for the degree of M.D., C.M., is, therefore, four sessions of study comprising one hundred and forty-four weeks exclusive of examination periods.

The arrangement of the principal subjects of instruction is usually as follows:

FIRST SESSION

Anatomy (including Embryology), Histology, Physiology, Biochemistry, Child Development and Human Relations, Introduction to Medicine, General Pathology, History of Medicine.

SECOND SESSION

Central Nervous System (Anatomy, Neuroanatomy, Neurophysiology, Psychology), Medical Microbiology, Laboratory Diagnosis, Medicine, Surgery, Obstetrics, Health and Social Medicine, Psychiatry, Special Pathology, Radiology, History of Medicine.

THIRD SESSION

Health and Social Medicine, Medicine, Surgery, Obstetrics and Gynaecology, Medical Jurisprudence, Neurology and Neurosurgery, Paediatrics, Psychiatry, Ophthalmology, Oto-laryngology, Radiology, Anaesthesia, Electives.

FOURTH SESSION

Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Paediatrics, Ophthalmology, Oto-laryngology, Radiology, Therapeutics.

EXAMINATIONS

The examinations taken within the Medical Faculty are divided into two groups, namely major examinations and minor examinations. Major examinations are the final examinations in Anatomy (Embryology), Histology, Physiology, Biochemistry, Pharmacology, Medical Microbiology, Special Pathology, Public Health and Preventive Medicine (Third year), Paediatrics, Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Central Nervous System.

The examinations in Medicine, Surgery, Obstetrics and Gynaecology, and Psychiatry at the conclusion of the Third Session are ranked as major examinations, even though they are not the final examinations in these subjects.

Minor examinations include the final examinations in General Pathology, Laboratory Diagnosis and examinations preliminary to the final major examinations.

A student who fails in any major examination will be required, before he sits a supplemental examination, to present to the Dean's office from the senior professor of the Department concerned a certificate that the student has taken sufficient extra tuition as would indicate that he has reviewed the subject and is a suitable candidate for the supplemental examination. There is a strict difference between the importance of a major and a minor examination. If a student fails in the supplemental of a major examination, there are definite restrictions as hereinafter set forth, while failure in the supplemental of a minor examination permits the student to carry conditions as are hereinafter laid down.

A student who fails in the supplementals of not more than two minor examinations may proceed with other subjects in the following year, carrying such subjects as conditions, but may not sit any subsequent major examinations until the conditions have been removed, nor may more than two conditions be carried at one time.

All conditions must be removed by the end of the first term (November) in each session when additional supplemental examinations will be held. Failure in any of these will require the student to revert to the previous year and to repeat the courses of the Winter and Spring terms.

A student who fails in the supplementals of three or more minor examinations in any one session must repeat this session or may be asked to retire, as may be decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it be decided that he should retire.

A failure in the supplemental of a major examination will require the student to repeat the course (repeat the year), and no student may repeat such a course more than once. Any student who fails in the supplementals of two major examinations in any one year shall be required to retire without the privilege of further supplementals.

A student is not allowed supplementals in three major examinations in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student is not allowed supplementals in two major and one minor examination in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it be decided that he should retire.

A student in the final year may take a supplemental examination in one subject only at the end of the following September, but must present a certificate from the senior professor of the Department concerned that he has taken at least three months' extra tuition in this subject in one of the teaching hospitals of the McGill Faculty of Medicine. If he should fail in this supplemental examination, he must repeat the year of study and pass all the major examinations at the completion of the session.

A student in the final year who fails in two subjects will not be permitted supplementals but must repeat the year or retire, as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student will not be allowed to repeat a year more than once nor may he repeat a subsequent year if such repetition has been due to failure in examinations, except on special recommendation of the Promotion Committee, acting upon the motion of the representatives on the committee of the Department concerned.

A student who has been permitted to repeat his year shall be required to make a C+grade, which for this purpose is considered to be 65%, or he will not be permitted to continue his course.

Examinations, tests, reviews, etc. will ordinarily be held during the session only at the end of the twelve week terms. If is understood that such examinations, tests or reviews are conducted for the benefit of the student in order that he may have experience in the requirements of the sessional examinations, and further, that he and his teachers may know he is progressing in his studies. In the Fourth year final examinations will be held at the end of each rotation.

There shall be two Promotion Committees. The First Committee shall consist of representatives of the subjects of Anatomy, Biochemistry, Histology, Physiology, Pharmacology, Medical Microbiology and Pathology, appointed by the Dean, and the Dean and the Secretary ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the First and Second years. The second Committee shall consist of representatives of the Departments of Health and Social Medicine, Medicine, Surgery, Obstetrics and Gynaecology, Paediatrics, and Psychiatry appointed by the Dean, and the Dean and the Secretary ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the Third and Fourth years.

All results of examinations will be given out by the Dean's office, after they have been passed upon by the Promotion Committee. It is an absolute rule that no examination results shall be communicated by any other channel.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent. There can be no appeal from this decision.

GRADING

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At the conclusion of each course, students are graded in five groups as follows:

A = Excellent

B = Good

C = Fair

D = Doubtful

E = Failure

In reporting the grading, the names of those students who attain "A" standing are arranged in order of merit; in all other grades the arrangement is alphabetical.

By regulation of the Faculty of Medicine, a student is not permitted more than one "D" grade in the examinations of a single year. In the presence of other "D" or "E" grades all "D" grades are automatically converted into failures by the Promotion Committees.

The grade assigned to a student is based upon the results of the Final Examination, but the instructor also takes into account the record of the work done throughout the course.

The quality of the English used by a candidate is taken into account in determining his standing in all examinations.

REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

- Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.
- 2. He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than nine months each in this University or in some other university, college or school of Medicine, approved by this University. (See page 1607.)
 - 3. No one is permitted to become a candidate for the degree who has not attended at least two full sessions at this University.
 - 4. Every candidate for the degree must have passed all of the required examinations in the subjects comprising the Medical course.
 - 5. He must have attended the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University and the practice of the Montreal Children's Hospital; and must have acted as clinical clerk in Medicine, Surgery, Paediatrics and Psychiatry and have fully reported upon the prescribed number of cases.

- 6. He must also have attended the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.
- 7. Every candidate must also have administered anaesthetics, under direction, at least six times, and have assisted at not less than six autopsies.

REQUIREMENTS FOR LICENCE

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each one of the United States the right of licensing is vested in a Licensing Body which has its special laws and requirements; in many cases a special standard of general education is insisted upon before beginning the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained.

N.B —In order that disappointment and loss of time may be avoided, the University requires Canadian students to register with the licensing body of their home province before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:

QUEBEC—Dr. J. Paquin, 1896 Dorchester St. West, Montreal 25, P.Q. ONTARIO—Dr. H. McPhedran, 174 St. George St., Toronto 5, Ont.

NEW BRUNSWICK—Dr. J. M. Barry, 182 Princess St., Saint John, N.B. Nova Scotia—Dr. M. R. Macdonald, Victoria General Hospital,

PRINCE EDWARD ISLAND—Dr. R. G. Lea, 170 Fitzroy St., Charlottetown, P.E.I.

MANITOBA—Dr. M. T. Macfarland, 605 Medical Arts Building, Winnipeg, Man.

ALBERTA—Dr. W. Bramley-Moore, 207 Alexandra Block, Edmonton, Alta.

SASKATCHEWAN—Dr. G. N. Peacock, 415 Birks Bldg., Saskatoon, Sask. British Columbia—Dr. Lynn Gunn, 1807 West 10th Avenue, Vancouver 9, B.C.

Newfoundland-Dr. C. Macpherson, P.O. Box 5121, St. John's, Nfld.

Halifax, N.S.

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In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, 77 Metcalfe Street, Ottawa 4, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance at lectures, practical work, and clinics are also accepted by the various examining boards in Great Britain.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

Courses of Instruction

DEPARTMENT OF ANAESTHESIA

Associate Professor R. G. B. GILBERT, Chairman

Wellcome Research Professor

I. G. ROBSON

Assistant Professors P. R. BROMAGE W. G. CULLEN H. T. DAVENPORT GLADYS ELLISON R. S. FERGUSON R. A. MILLAR A. B. Noble D. J. POWER

Lecturers G. F. Brindle The second and the second second of the seco P. O'SHAUGHNESSY J. B. Sutherland

Demonstrators MARGARET BARR N. W. B. CRAYTHORNE J. D. A. FIRTH DEIRDRE GILLIES E. W. LARKING A. W. MACDONALD D. J. L. MACWATT A. N. MUNGALL ANNE RICHARDSON F. A. ROBILLARD J. K. ROSALES A. C. SHERIDAN F. B. SINGLETON F. R. H. WRIGLEY

UNDERGRADUATE COURSES

A student in Medicine, before reaching that part of the curriculum which deals with anaesthesia, will have acquired during the earlier years at the University some incomplete, but important knowledge of anaesthesia while taking courses in anatomy, physiology, biochemistry, pharmacology and pathology.

In the Third year he attends twelve lectures, illustrated by sound films, given by senior members of the Department of Anaesthesia. The student is given advice on what to read. An examination may follow the termination of this session.

In the Fourth year a period of one week is spent in the operating room. The student is assigned to an anaesthetist each morning from 8-12 while in the afternoon from 1.30 - 2.30 he attends a didactic session concerning the procedures he has witnessed.

Also in this year the one month "Period of Election" may voluntarily be spent in the Department of Anaesthesia of one of the University hospitals. This presents opportunity for additional supervised clinical work in the operating room, the recovery room and the intensive care unit.

Textbook: R. D. Dripps et al. Introduction to Anesthesia (Saunders, 1957).

DEPARTMENT OF ANATOMY

	C P MARTIN
	S. M. BANFILL
	Y. CLERMONT
Lecturers	1. SMART
	H. Isler
Teaching Fellows	N. J. NADLER J. K. SANGHI

REQUIRED COURSES

1. GROSS ANATOMY

First year: Six hours per week during the Autumn term and nine hours per week during the Winter and Spring terms. Dissection and lectures cover the gross anatomy of the body except the Head, Neck and Brain. The course includes Embryology and Surface and Radiological Anatomy.

Second year: Nine hours per week during the Autumn term. Dissection and lectures on the Head, Neck and Brain. This course is followed by 2. Introduction to the Central Nervous System listed below and a combined examination is held at the end of the year.

2. INTRODUCTION TO THE CENTRAL NERVOUS SYSTEM

Six hours lecture and laboratory per week during the second term of the Second year and two hours lectures per week during the third term. Conducted with the co-operation of the Departments of Neurology and Neurosurgery, Physiology and Psychology. This course is listed under the Department of Neurology and Neurosurgery as 2A.

3. APPLIED ANATOMY

One hour per week lecture during the Autumn, Winter and Spring terms (Designed for graduate students and candidates for the Diploma in Surgery).

Textbooks: T. B. Johnston and D. V. Davies, Gray's Anatomy, 32nd ed. (Longmans 1954) or J. C. Brash, Cunningham's Text-Book of Anatomy 9th ed. (Oxford 1951).

Practical Manual: J. T. Aitken et al., A Manual of Human Anatomy, 5 vols. (Livingstone 1956).

Surface Anatomy: A. B. Appleton et al., Surface and Radiological Anatomy, 3rd ed. (Heffer 1949).

Optional Texts: J. E. Frazer, Anatomy of the Human Skeleton by A. S. Breadnach, 5th ed. (Churchill 1958); J. C. B. Grant, An Atlas of Anatomy, 4th ed. (Williams and Wilkins 1956); J. C. B. Grant, A Method of Anatomy, 6th ed. (Williams and Wilkins, 1958); E. B. Jamieson, Illustrations of Regional Anatomy, 7th ed. 7 vols. (Livingstone 1947); T. B. Johnston, A Synopsis of Regional Anatomy, 8th ed. (Churchill 1957); A. Lee McGregor, Synopsis of Surgical Anatomy, 8th ed. (Wright, 1957); S. W. Ranson and S. L. Clark, Anatomy of the Nervous System, 10th ed. (Saunders 1959).

INTRODUCTION TO MEDICINE

One hour per week from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry and Physiology, in rotation.

ELECTIVE COURSES

The Department provides, as far as material will permit, facilities for advanced work or revision. The Chairman of the Department should be consulted by anyone wishing to undertake work of this nature.

4. ADVANCED NEURO-ANATOMY

Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton. The class is limited to ten. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.

MICROSCOPIC ANATOMY

REQUIRED COURSE

6. HISTOLOGY

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The study of the histological structure of the body. Two or three hours lectures and six or nine hours laboratory work per week during the first two terms of the first medical year.

Textbooks: A. W. Ham, Histology, 3rd ed. (Lippincott 1957); A. A. Maximow and W. Bloom, A Textbook of Histology, 7th ed. (Saunders 1957); Bailey's Textbook of Histology, 14th ed., by W. M. Copenhaven and D. D. Johnson (Williams and Wilkins, 1958).

Additional Reading: E. V. Cowdry, A Textbook of Histology, 4th ed. (Lea and Febiger 1950); E. D. P. DeRobertis, W. W. Nowinski and F. A. Saenz, General Cytology, 2nd ed. (Saunders 1954); R. O. Greep, Histology (Blakiston 1954).

ELECTIVE COURSE

7. EXPERIMENTAL MORPHOLOGY

- (a) A seminar on biological problems-1 hour per week.
- (b) A practical course on the planning of biological experiments, laboratory animal management and operations, histological and histometrical techniques, tracing methods (Radioisotope measurement by Geiger counter and localization in tissue section by radio-autography), microphotography, statistical methods for assessing data, etc. One hour lecture and 2 hours laboratory per week.

EMBRYOLOGY

REQUIRED COURSE

8. THE STUDY OF HUMAN DEVELOPMENTAL ANATOMY

This course is integrated with 1. *Gross Anatomy*. Lectures and demonstrations of live material and models are distributed over the First year and the first term of the Second year. Topics emphasized are: early stages of development; the cardio-vascular, respiratory, gastro-intestinal, urogenital and nervous system; and the fetal membranes.

Textbooks: L. B. Arey, Developmental Anatomy, 6th ed. (Saunders 1954); W. J. Hamilton et al., Human Embryology, 2nd ed. (Heffer 1952); Section on Embryology in Cunningham's Textbook of Anatomy; Section of Embryology in Gray's Anatomy.

DEPARTMENT OF BACTERIOLOGY AND IMMUNOLOGY

Professor

R. W. REED, Chairman

Associate Professors

G. G. KALZ J. W. STEVENSON

Assistant Professors

FRITZ BLANK C. A. BUTAS A. M. Masson

B. N. MATHESON S. I. Vas

Lecturers L. Kapica H. D. KING E. MANKIEWICZ

O. MORGANTE

F. H. PRISSICK R. SILOV

Teaching Fellow

E. L. MEDZON

All lectures and laboratory courses are given in the Department of Bacteriology, Pathological Institute.

20. MEDICAL MICROBIOLOGY

This course deals with the general principles of medical microbiology and immunology. The lectures are concerned with the anatomy and physiology of bacteria, theories of infection and immunity and a systematic study of the pathogenic bacteria, viruses and rickettsiae. The animal parasites of man (protozoa, helminths and anthropods) are considered with special emphasis on those found in North America. Laboratory work provides experience in the cultivation, isolation and identification of microorganisms and an opportunity to observe their physiological and immunological properties.

Lectures and laboratory work during the first two trimesters of the Second year.

Textbooks: Wm. Burrows, Textbook of Microbiology, 17th ed. (Saunders 1959); Ernest Jawetz et al., Review of Medical Microbiology, 4th ed. (Lange 1960); D. T. Smith and N. F. Conant, Zinsser's Bacteriology, 11th ed. (Appleton 1957); T. W. M. Cameron, The Parasites of Man in Temperate Climates, 2nd ed. (Univ. of Toronto Press, 1946).

References: R. J. Dubos, Bacterial and Mycotic Infections of Man, 3rd ed. (Lippincott 1958); Sidney Raffel, Immunity (Appleton 1953); A. J. Rhodes and C. E. Van Rooyen, Textbook of Virology, 3rd ed. (Williams and Wilkins 1985); T. M. Rivers and F. L. Horsfall, Viral and Rickettsial Infections of Man, 3rd ed. (Lippincott 1958).

42. ADVANCED MICROBIOLOGY

43a. IMMUNOLOGY

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46. SEMINARS IN MICROBIOLOGY AND IMMUNOLOGY

OTHER COURSES

The Department offers facilities for undergradute and graduate training.

See the announcements of the Faculty of Arts and Science and of the
Faculty of Graduate Studies and Research.

DEPARTMENT OF BIOCHEMISTRY

Professors

K. A. C. Elliott, Chairman

I. H. QUASTEL

D. L. THOMSON

Associate Professors

O. F. DENSTEDT M. SAFFRAN

Assistant Professors

E. H. CREASER ESAU HOSEIN

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P. G. Scholefield

FIRST YEAR

BIOCHEMISTRY-PHYSIOLOGY 1. Mon. to Fri., at 9 a.m.

BIOCHEMISTRY-PHYSIOLOGY 1L.

Laboratory: six hours a week.

Staff

BIOCHEMISTRY-PHYSIOLOGY 1D. Demonstrations and tutorials.

2 hours per week.

This is an integrated course of lectures, tutorials, demonstrations and laboratory work given jointly by the two departments.

INTRODUCTION TO MEDICINE

One hour per week from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry, and Physiology, in rotation.

THIRD YEAR ELECTIVE

3E. RESEARCH IN BIOCHEMISTRY AND PHYSIOLOGY. A limited number of students may take Biochemistry or Physiology as their elective subject in the Third year. These students will be given the opportunity to participate in departmental research projects.

OPTIONAL ADDITIONAL COURSES

For students who are interested in additional studies in Biochemistry the following courses are recommended:

45. METABOLISM. The nature of biological oxidations and reductions and the enzymes concerned therewith, especially from the point of view of transfer of energy; the intermediary metabolism of organic foodstuff, the hormonal control of metabolism.

First term: 2 hours

Second term: 3 hours

Staff

51-52. SPECIALTIES AND RECENT ADVANCES IN BIOCHEMISTRY. In this course groups of lectures will outline special fields of Biochemistry in which advances have been rapid. The content of the course will change from year to year.

One hour.

Staff

This course is open only to students who have previously taken advanced courses in Biochemistry.

DEPARTMENT OF HEALTH AND SOCIAL MEDICINE

Strathcona Professor

Associate Professors

R. P. VIVIAN, Chairman

D. S. FLEMING C. W. MACMILLAN MARGARET E. NIX

Assistant Professor Marian Bain

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Lecturers H. E. Burke F. M. Jones MILTON G. TOWNSEND FREDERICK WIENER EDITH M. MANKIEWICZ M. A. HICKEY

Demonstrators

The Department provides three courses for undergraduates in the Faculty of Medicine-Public Health and Preventive Medicine, Medical Ethics and Jurisprudence, and Medical Statistics.

The course in Medical Statistics is given in the autumn term of the First year and consists of 12 one hour lectures. The course deals with statistical methods and techniques most frequently used in medical work.

The course in Public Health and Preventive Medicine is begun in the autumn term of the Second year and contains, for each student, 24 lectures of 1 hour each and 11 demonstrations or field trips of 21/2 hours each, a total time of 51½ hours.

The lectures deal with Epidemiology as a medical science and with the application of epidemiological principles to the study of disease causation and behaviour. Special emphasis is placed upon the influence of the environment upon health. Nutrition is also dealt with as a problem of ecology. Vital Statistics deals with census and estimated populations, registration, definition and computation of rates.

Industrial Toxicology. Four lectures on (a) dusts, fumes, smokes, mists, fogs and vapours (b) metal fume fever (c) arsenic, lead and mercury (d) (d) carbon monoxide (e) organic compounds-aliphatic and aromatic hydrocarbons-halogenated, nitro, and amino derivatives (f) organic solvents (g) factors influencing selection of employees (h) early diagnosis of industrial poisoning.

Field trips and demonstrations pertinent to the lecture material are arranged which include visits to a water plant, a provincial laboratory, the Institute of Microbiology and the Royal Edward Laurentian Hospital; and discussion periods on Public Health Practice and Vital Statistics.

A minor examination is held at the end of the Second year.

The second part of the course in Public Health and Preventive Medicine is given in the Third year. This part contains 12 lectures given to the class as a whole at weekly intervals during the autumn term and 12 afternoon sessions of 21/2 hours each, in each of the three week concentration periods provided in the curriculum. The total time for each student in the Third year is 42 hours.

The lectures present the epidemiological approach to the control of communicable diseases and the prevention of degenerative diseases and other disabilities. They are designed to introduce the work of the concentration periods as well as to deal with entities for which no concentration period is provided.

The concentration periods are designed to provide an outline of the organization and activities of public health services in Canada and the operation of local or municipal public health programs, together with didactic material on the etiology, epidemiology and control of specific infectious diseases with demonstration and practice in the use of immunizing agents. The concentration periods also contain the presentation of didactic material on health supervision policies for particular groups in the community with demonstration and discussion.

A final examination is held at the end of the Third year.

Text and Reference Books: M. J. Rosenau, Preventive Medicine and Public Health, ed. by K. F. Maxcy, 8th ed. (Appleton 1956); H. S. Mustard and E. L. Stebbins, Introduction to Public Health, 4th ed. (Macmillan, New York, 1959); H. R. Leavell and E. G. Clark, Preventive Medicine for the Doctor in his Community, 2nd ed. (McGraw-Hill 1958).

MEDICAL ETHICS AND JURISPRUDENCE

The course in Medical Ethics and Jurisprudence consists of some 12 lectures, given to the class as a whole, in the spring term of the Second year.

Twelve lectures on (a) legal status of physicians (b) obligation of the doctor to the state (c) professional secrecy—privileged communications (d) responsibility to the patient—implied and expressed contracts (e) physical examinations, surgical operations and consent (f) malpractice—civil, criminal (g) legal procedures—coroner's court, other courts, medical witness (h) medico-legal aspects of death (i) personal identity in its medico-legal bearing (j) blood stains (k) wounds (l) pregnancy (m) abortion (n) infanticide (o) impotency and sterility (p) rape (q) medico-legal aspects of alcoholic intoxication (r) insanity.

Texts and Reference Books: i. General: R. J. M. Buchanan, Textbook of Forensic Medicine and Toxicology, 9th ed. (Livingstone 1925); John Glaister, Medical Jurisprudence and Toxicology, 9th ed. (Williams and Wilkins 1953); T. A. Gonzales et al., Legal Medicine, 2nd ed. (Appleton 1954); D. J. A. Kerr, Forensic Medicine, 5th ed. (Black 1954); H. H. Littlejohn, Forensic Medicine (Churchill 1925); R. H. Long, The Physician and the Law, 2nd ed. (Appleton 1959); W. D. McNally, Toxicology,

Chic., (Indus. Medicine 1937); Sydney Smith and F. S. Fiddes, Forensic Medicine, 10th ed. (Churchill 1955); Sydney Smith and John Glaister, Recent Advances in Forensic Medicine, 2nd ed. (Churchill 1939); A. S. Taylor, Principles and Practice of Medical Jurisprudence, ed. by Sydney Smith, 11th ed., 2 vols. (Churchill 1956-57).

ii. Industrial Toxicology: Ethel Browning, Toxicity of Industrial Organic Solvents, 2nd ed. (H.M.S.O. 1953) (G.B. Med. Res. Counc. Indus. Health Res. Bd. Rept. no. 80); Yandell Henderson and H. W. Haggard, Noxious gases, 2nd ed. (Reinhold 1953); Donald Hunter Industrial Toxicology (Oxford 1944).

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Professor LLOYD G. STEVENSON

REQUIRED COURSES

1. INTRODUCTORY COURSE (First year)

A series of 12 lectures given during the first month of the medical course to provide an historical orientation to the student entering upon the study of medicine.

2. HISTORY OF MEDICINE (Second year).

A series of 12 lectures providing a survey of the history of relationships between medicine and general culture, with reference to economics, politics, philosophy and religion.

DEPARTMENT OF INVESTIGATIVE MEDICINE

Professor

J. S. L. BROWNE, Chairman

Assistant Professors

C. J.-P. GIROUD N. KALANT

Lecturers

IVAN BECK C. I. CHAPPEL

M. M. GOLD

R. SCHUCHER

I. STACHENKO

R. WOLFE

The Department offers courses leading to the degrees of M.Sc. and Ph.D. in the Faculty of Graduate Studies and Research and provides research facilities for these students or for other persons proceeding to graduate

degrees, diplomas or for other qualified individuals. The Department is also prepared to make arrangements to offer elective courses for Medical undergraduate students.

The courses and the direction of research in this department are given in close collaboration with the Department of Experimental Medicine and members of either department give lectures and direct the research of graduate students registered in the other.

Students may work either in the Medical Building or in one of a number of hospitals depending on the type of work done (clinical or laboratory) or upon the individual directing the research. Part of the function of the department is the correlation of clinical investigation being done at various hospitals.

Students holding either the M.D. or B.Sc. degree or its equivalent may enter the department provided that their standing is acceptable. For the list of courses and further details see the Calendar of the Faculty of Graduate Studies and Research.

DEPARTMENT OF MEDICINE

Professors

Professors	RONALD V. CHRISTIE, Chairman
Associate Professors:	D. G. CAMERON
D. V. BATES J. C. BECK E. H. BENSLEY G. A. COPPING NEIL FEENEY C. W. FULLERTON G. W. HALPENNY W. H. P. HILL	M.M. HOFFMAN J. G. HOWLETT A. L. JOHNSON LOUIS LOWENSTEIN H. S. MITCHELL BRAM ROSE S. R. TOWNSEND

Assistant Professors:

C. J. PATTEE
F. M. SMITH P. B. STEWART
A. T. THOM

Lecturers:

M. Aronovitch	DAY
C. M. BALLEM	B. A. LEVITAN
C. S. BARKER	A. D. MACDONALD C. C. MACDONALD

R. G. BAXTER	
M. R. BECKLAKE	
J. O. W. BRABANDER	
J. L. BRANDT	
S. Brown	
LAUDER BRUNTON	
LLOYD CASWELL	
R. A. CLEGHRON	
WILLIAM COHEN	
P. A. EDWARDS	
A. Gold	
ALEC GORDON	
R. G. M. HARBERT	
RONALD HOBKIRK	
A. W. LAPIN	
W. LEITH	

D. J. MACINTOSH
J. R. MARTIN
A. MILLER
R. O. Morgen
M. NOTKIN
J. A. P. Paré
R. E. G. PLACE
J. S. Polson
T. L. QUINTIN
E. A. S. REID
LORNE SHAPIRO
K. A. SOWDEN
MURRAY STALKER
P. G. WEIL
G. E. WIGHT
D. H. WOODHOUSE

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monstrators:
J. R. Albert
Eva Arendt
A. Aronoff
DAVID BARZA
I. T. BECK
T. A. Brown
PARKER CHESNEY
B. A. COOPER
S. R. COOPER
R. F. P. CRONYN
J. H. DARRAGH
N. M. K. DELEEUW
J. B. Dossetor
S. EIDINGER
C. M. FLINT
S. O. FREEDMAN
T. R. HALE
J. L. HUTCHISON
G. E. JORON
M. KAYE
D. G. KINNEAR

A. KNIGHT
L. J. KORENBERG
L. Kovacs
W. A. R. LAING
W. K. MACDONALD
MELVIN McQUITTY
D. M. MARCUS
SAMUEL ORKIN
BERNARD POLLAK
S. L. RICHARDSON
JACK H. RUBIN
J. A. SHANKS
A. SHULMAN
P. Sommerfreund
C. H. STACEY
R. L. STANFORD
K. R. STEWART
DAVID STUBINGTON
E. A. TURCOT
J. WENER
J. C. G. Young

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THERAPEUTICS

Associate Professors

C. W. FULLERTON

I. G. HOWLETT

Lecturers

G. H. FISK B. A. LEVITAN A. MILLER

DERMATOLOGY

Associate Professor

R. R. FORSEY

Assistant Professors

G. E. CRAIG FREDERICK KALZ

B. D. USHER

Demonstrators

M. S. COHEN ANNA FLINT

PAULA SCHOPFLOCHER

P. P. TELNER

EXPERIMENTAL MEDICINE

Professor

ELEANOR H. VENNING

Assistant Professors

MAXWELL RICHTER

DAVID RUBENSTEIN

N.B. See Announcement of the Faculty of Graduate Studies and Research.

THE CURRICULUM IN THE DEPARTMENT OF MEDICINE

FOREWORD

The object of the following courses is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease, to afford a knowledge of the technique, and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students, teachers, and patients throughtout the final years is of prime importance.

The close correlation of physiology, anatomy, and biochemistry with clinical medicine is emphasized—not only in the pre-clinical years, but later in hospital and laboratory—thus affording students a modern scientific medical training. The importance of regarding the patient as a person is emphasized throughout.

Unusual facilities are afforded at the Royal Victoria Hospital and at the Montreal General Hospital where there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

REQUIRED COURSES

SECOND YEAR

COURSE II 1—INTEGRATION OF PHYSIOLOGY, BIOCHEMISTRY AND ANATOMY WITH MEDICINE

Time—Last term of Second year: three lectures a week.

Place-Medical Building.

Subject Material—This course covers in a systematic manner the deviations from the normal of the physiological and biochemical functions. These are correlated so as to explain symptoms and signs which may be found on physical examination as detected by clinical methods dealt with in Course II 2. This course is so interpreted as to give the student a panoramic view of these disturbances with a proper perspective.

COURSE II 2—A PRACTICAL COURSE IN CLINICAL METHODS

Time—Third term of Second year.

Place—Outpatient Departments of the Royal Victoria, Montreal General, and Queen Mary Veterans Hospitals.

Subject—Practical instruction 6 hours a week on Normal and Abnormal Physical Signs.

COURSE II 3—LABORATORY DIAGNOSIS

Time—Last term of Second year.

Place-Medical Building.

Subject—Instruction and practice 2 periods a week in microscopy as applied to clinical medicine.

Dr. Lauder Brunton and Assistants

THIRD YEAR

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COURSE III 4—CASE REPORTING

During the trimester in Medicine students will be assigned patients in the wards. They will be required to write case histories, make a general examination, note progress, and do such laboratory investigations as are within their scope and have access to all other Laboratory and X-Ray findings. Teaching Fellows will be available to assist students in this work. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

COURSE III 5-CLINICO-PATHOLOGICAL CONFERENCE

Time—Weekly during the medical term.

Place—The Royal Victoria and the Montreal General Hospitals.

COURSE III 6—Integration of Physiology, Biochemistry and Anatomy with Medicine—a continuation of course II. One lecture a week for 2 terms, two lectures a week for the third term.

COURSE III 7—THERAPEUTICS

A course of 20 lectures on the principles of therapeutics and on the treatment of various diseases for which clinical material is not readily available.

in Course H 1. This course is so interpreted as to give SABY HTRUOT

COURSE IV 8—CASE REPORTING

An effort is made to enable the student in the Fourth year to take an active part in the care of the patient, both in the wards and in the Out-door Clinics. One month will be spent on the wards and one month in the "Comprehensive Clinic" of the outpatient department. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

COURSE IV 9—CLINICAL PATHOLOGICAL CONFERENCE

Time-Once a week during the medical term.

Place—The Royal Victoria and the Montreal General Hospitals.

TEXT AND REFERENCE BOOKS

The following books have been classified under general headings and are merely suggestions from which the student may choose according to his own needs. The list is not intended to be exclusive; there are other text books which the student may prefer. The list of reference books is given for information.

Clinical and Laboratory Methods and Physical Diagnosis: R. C. Cabot and F. D. Adams, Physical Diagnosis, 13th ed. (Wood 1942); R. B. H. Gradwohl, Clinical Laboratory Methods and Diagnosis, 5th ed. 2 vols.

(Mosby 1956); T. H. Ham, ed., A Syllabus of Laboratory Examination in Clinical Diagnosis (Harvard Univ. Pr. 1952); Hutchison's Clinical Methods by Donald Hunter and R. R. Bomford, 13th ed. (Cassell 1956); S. S. Leopold, The Principles and Methods of Physical Diagnosis, 2nd ed. (Saunders 1957); McGill University, Dept. of Medicine, Guide to Medical Case Reporting, 3rd ed., 1950; R. H. Major and M. H. Delp, Physical Diagnosis, 5th ed. (Saunders 1956); J. C. Todd et al., Clinical Diagnosis by Laboratory Methods, 12th ed. (Saunders 1953); Harry Walker, Physical Diagnosis (Mosby 1952).

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Physio-Pathology: C. H. Best and N. B. Taylor, The Physiological Basis of Medical Practice, 6th ed. (Williams and Wilkins 1955); Meyer Bodansky and Oscar Bodansky, Biochemistry of Disease, 2nd ed. N.Y. (Macmillan 1952); Abraham Cantarow and Max. Trumper, Clinical Biochemistry, 5th ed. (Saunders 1955); C. H. Gray, Clinical Chemical Pathology (Williams and Wilkins 1953); J. P. Peters and D. D. Van Slyke, Quantitative Clinical Chemistry, vol. 1: Interpretations, 2nd ed. (Williams and Wilkins 1946); W. A. Sodeman, Pathologic Physiology, 2nd ed. (Saunders 1956); Samson Wright, Applied Physiology, 9th ed. (Oxford 1952).

General Medicine: R. L. Cecil and R. F. Loeb, Textbook of Medicine, 10th ed. (Saunders 1959); J. J. Conybeare and W. N. Mann, Textbook of Medicine, 12th ed. (Livingstone 1957); L. S. P. Davidson, Principles and Practice of Medicine; 4th ed. (Livingstone 1958); T. R. Harrison, Principles of Internal Medicine, 3rd ed. (Blakiston, 1958); J. C. Meakins, Practice of Medicine, 6th ed. (Mosby 1956); W. M. Yater, Fundamentals of Internal Medicine, 4th ed. (Appleton 1954).

Differential Diagnosis: W. M. Barton and W. M. Yater, Symptom Diagnosis, 4th ed. (Appleton 1942); T. D. Savill, System of Clinical Medicine, 12th ed. (Williams and Wilkins 1944).

Dermatology: R. W. MacKenna, Diseases of the Skin by R. M. B. MacKenna, 5th ed. (Bailliere 1952); Norman Tobias, Essentials of Dermatology, 5th ed. (Lippincott 1956); Norman Walker and G. H. Percival, Introduction to Dermatology, 12th ed. (Livingstone 1956).

Miscellaneous Reference Books: G. G. Duncan, Diseases of Metabolism, 4th ed. (Saunders, 1959); C. K. Friedberg, Diseases of the Heart, 2nd ed. (Saunders 1956); E. P. Joslin, Diabetic Manual for the Doctor and Patient, 10th ed. (Lea and Febiger 1959); J. S. McLester and W. J. Darby, Nutrition and Diet in Health and Disease, 7th ed. (Saunders 1958); O. S. Ormsby and Hamilton Montgomery, Diseases of the Skin, 8th ed. (Lea and Febiger 1954); E. H. Rubin, Diseases of the Chest (Saunders 1947); Samuel Soskin, Progress in Clinical Endocrinology

(Grune 1950); R. L. Sutton and R. L. Sutton, Diseases of the Skin, 11th ed. (Mosby 1956); H. B. Taussig, Congenital Malformations of the Heart (Oxford 1948); L. E. H. Whitby and C. J. C. Britton, Disorders of the Blood, 8th ed. (Churchill, 1957); M. M. Wintrobe, Clinical Hematology, 4th ed. (Lea and Febiger 1956).

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

Chairman and Professor of Neurology and Neurosurgery THEODORE RASMUSSEN Professor of Neurology FRANCIS McNaughton Professor of Neurosurgery WILLIAM FEINDEL HERBERT JASPER Professor of Experimental Neurology Professor (Biochemistry) and Director Donner Laboratory of Neurochemistry K. A. C. ELLIOTT Associate Professor of Neurosurgery ARTHUR ELVIDGE Associate Professor of Neurological Radiology Donald McRae Assistant Professors of Neurology J. B. R. Cosgrove D. L. LLOYD-SMITH PRESTON ROBB W. F. T. TATLOW Assistant Professor of Neuropathology GORDON MATHIESON Assistant Professors of Neurosurgery HAROLD ELLIOTT GILLES BERTRAND Assistant Professor of Experimental Neurology PIERRE GLOOR Lecturers in Neurology BERNARD GRAHAM IRVING HELLER D. E. HOWELL REUBEN RABINOVITCH Lecturer in Neurosurgery CHARLES BRANCH Lecturer in Experimental Neurology HANNA PAPPIUS Lecturer in Clinical Psychology BRENDA MILNER Demonstrators in Neurology FREDERICK ANDERMANN ALLAN MORTON TERESITA ELIZAN Demonstrators in Neurosurgery D. R. GULATI ANTONE TARAZI GORDON THOMPSON

JOHN JANE

LEWIS HENDERSON

Demonstrator in Neuropathology

Demonstrator in Electroencephalography

Fellows of the Montreal Neurological Institute:

J. Antonio Aguilar	
FREDERICK ANDERMANN	
ANDRE BARBEAU	
JESSE BARBER	MII
EVERETT BOVARD	
KICHARD BROWN	
FLOYD COOPER	
VIJAY DAVE	
TERESITA ELIZAN	
DANIEL GONZALEZ	
JAN GYBELS	
Jules Hardy	
J. C. JACOB	
KENNETH KAPPHAHN	

ISRAEL LIBMAN JERZY MAJKOWSKI PABLO MARIN ROSLAV MASSAKOWSKI HUNTINGTON MAYOR ROGER MORRELL ROSARIO MUSELLA WILBUR McCRUM JEWELL OSTERHOLM PHANOR PEROT RICHARD ROVIT HUGH SAMSON ALLAN SHERWIN LUIGI SPERTI PRAKASH TANDON CHRISTIAN VERA CURTIS WITHROW

SECOND YEAR

2A INTRODUCTION TO THE CENTRAL NERVOUS SYSTEM. Combined course given by the Departments of Anatomy, Neurology and Neurosurgery, Physiology and Psychology. Two hours lecture, three hours laboratory and one hour demonstration per week, during the second term and two hours lecture per week during the third term.

Professors McNaughton, Jasper, Burns and Hebb

- 2B INSTRUCTION IN CLINICAL EXAMINATION OF THE NERVOUS SYSTEM. Given in conjunction with the Department of Medicine in the third term.
- 2C NEUROPATHOLOGY. Given in conjunction with the Department of Pathology in the third term. Professor Mathieson
- 2D APPLIED PHYSIOLOGY (Department of Medicine). Six lectures.

Professors Rasmussen, McNaughton and Staff

THIRD YEAR

3A CLERKSHIP IN NEUROLOGY AND NEUROSURGERY. Four afternoons per week for three weeks, at the Montreal Neurological Institute.

Professors Rasmussen, McNaughton and Staff

- 3B SURVEY LECTURES, DISEASES OF THE NERVOUS SYSTEM. 12 lectures given during the first term. Professors Rasmussen, McNaughton and Staff
- 3C CLINICS AND CONFERENCES IN CONJUNCTION WITH THE DEPARTMENTS OF MEDICINE AND SURGERY.

FOURTH YEAR

CLINICS AND CONFERENCES IN CONJUNCTION WITH THE DEPARTMENTS OF MEDICINE AND SURGERY.

ELECTIVE COURSES

A. SEMINAR IN NEUROANATOMY, M.N.I.

- 1. This course is given in combination with course 2A "Introduction to the Central Nervous System."
- 2. Additional graduate seminars will be held co-ordinated with Course B.
- 3. Graduate students are expected to act as demonstrators and to pass the same examination which is given in undergraduate course 2A, but with higher standing.

 Professor McNaughton
- 4. Advanced Neuroanatomy for selected group; times to be arranged.

 Professor McNaughton

B. SEMINAR IN NEUROPHYSIOLOGY.

- 1. Lectures and examination together with undergraduate course 2A "Introduction to the Central Nervous System".
- 2. Weekly seminars and demonstrations co-ordinated with Course A-2 (4 months, beginning in December). Mondays, 4:30 to 6:00 p.m.
- 3. Under exceptional circumstances, a paper on a neuro-physiological subject may be written by special arrangements as a substitute for B-1.

Professors Jasper, Elliott and Gloor

- C. COLLOQUIUM IN CLINICAL NEUROLOGY.
 - 1 hour weekly, clinics and lectures, Wednesdays, 5:00 p.m. M.N.I. (9 months).

 Staff and Visiting Lecturers
- D. SEIZURE MECHANISMS AND CEREBRAL LOCALIZATION: CLINICAL ELECTRO-ENCEPHALOGRAPHIC, AND ROENTGENOGRAPHIC CONFERENCE.
 M.N.I. 1½ hours weekly (9 months). Tuesdays, 4:00 to 5:30 p.m.
 Professors Rasmussen, Jasper, McNaughton and McRae
- E. OUTLINE OF NEUROCHEMISTRY
 Instruction in neurochemistry in addition to that provided in course
 B-2 may be obtained by special arrangement.

 Professor Elliott
- F. NEUROPATHOLOGY.
- 1. Six months laboratory work in medical or surgical neuropathology.

 Professors Mathieson and Bertrand

2. Conference in neuropathology, Friday 4-5 p.m.

Professors Mathieson and Bertrand

3. Introduction to Histopathology of the Nervous System.

A short basic course for a limited number. By special arrangement with Professor Mathieson.

For graduate credit, courses Nos. 1 and 2 are required. Under special circumstances written and/or oral examinations may be substituted for Nos. 1 and 2 for students who have taken course No. 3.

G. NEUROLOGICAL RADIOLOGY.

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- 1. Lecture demonstrations (3 months beginning in September). Mondays 4:30 to 6:00 p.m.
- 2. Colloquium, 1 hour weekly (9 months) Mondays, 9:00 a.m.

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DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

Professor G. B. Maughan, Chairman

Associate Professors W. R. FOOTE

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G. A. SIMPSON

Assistant Professors J. L. MACARTHUR

T. PRIMROSE D. W. Sparling

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P. R. BLAHEY J. H. ROUTLEDGE

GRACE DONNELLY F. J. TWEEDIE

M. HENDELMAN

SIMON GOLD M. H. V. YOUNG

G. H. ARRONET H. OXORN

H. B. BOURNE R. M. PARSONS

J. R. Dodds J. Portnuff

J. S. Henry, Jr. P. C. Tremblay

E. A. MacCallum

The course is designed to impart a fundamental knowledge of the processes of human parturition, gynaecology and the care of the New-born. The student is introduced to the subject in his Second year. Thereafter in

both his Third and Fourth years, intensive teaching is carried out using to the full the facilities of the Royal Victoria Montreal Maternity Hospital and to a lesser extent the gynaecological wards of the Montreal General Hospital. The Royal Victoria Montreal Maternity Hospital is the largest teaching unit of its kind in Canada and the clinical material to be found in its wards is unsurpassed.

REQUIRED COURSES

SECOND YEAR-

An introductory course of twelve lectures is given by Professor Maughan during the last term. Following a review of the embryology and anatomy of the female genital tract the particular biochemical and endocrine aspects of the subject are taken up. The course closes with a description of the physiology of pregnancy and labour. Lectures are held in the Medical Building, McGill University.

THIRD YEAR-

OBSTETRICS

During this year, twenty-eight lectures are given to teach the fundamentals of pregnancy, labour and the puerperium by the members of the Royal Victoria Montreal Maternity Hospital Staff. Following this series the Montreal General Hospital Staff conduct five lecture classes as an introduction to gynaecology. Medical Building, McGill University.

An intensive six week's instruction in obstetrics is given each group of students during the academic year by the Staff of the Royal Victoria Montreal Maternity Hospital. Students group are further divided into smaller tutorial units so that individual students can be given the greatest opportunity to take part in the practical work of the class.

Eighteen hours are devoted to Manikin Instruction. Physical diagnosis at the bedside and Clinical Management in the wards and case rooms are allocated six hours each

Professor Maughan conducts six seminars on the Principles and Theory of Obstetrics and a further six hours are taken up by the members of the Staff in reviewing current work in the subject.

Six hours of gynaecological colloquia are given by a senior member of the Royal Victoria Montreal Maternity Hospital Staff to augment the gynaecological teaching noted below.

Students are also required to attend Departmental Ward Rounds in the Royal Victoria Montreal Maternity Hospital when interesting cases are discussed and lectures given on the latest advances in the field. Six classes are given by Doctor G. Nickerson, Paediatrician-in-Chief of the Royal Victoria Hospital and his Staff to introduce the student to the care of the new-born.

GYNAECOLOGY

Thirty-six demonstrations or lectures at the bedside or in the Out-Patient Department, to demonstrate the diagnosis and treatment of gynaecological disorders.

Professor MacFarlane and Assistants, Montreal General Hospital.

FOURTH YEAR-

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No formal lectures are given during the intensive four week course in obstetrics and gynaecology which is held entirely in the Royal Victoria Montreal Maternity Hospital. Students are coached in small groups and will live in the hospital for at least nine days. While living in, they are expected to participate in the work of the delivery rooms and wards. Written case reports are required and the student's progress is assessed partly on the care taken in the recording of the assigned cases and their follow-up. Teaching is divided between obstetrics and gynaecology using the facilities of the indoor and outdoor departments.

A four hour refresher course in Manikin is given.

Professor Maughan conducts group hospital rounds once a week.

Twenty-four hours are devoted to bedside clinics on antepartum and portpartum management of the obstetrical patient with particular emphasis on the recognition and treatment of complications.

Eight hours of revision seminars.

Doctor Primrose

Sixteen hours are devoted to the discussion of problems presented by the students.

R.V.M.M.H. Staff

Attendance at Outdoor clinics four afternoons a week is compulsory. Minor gynaecology and antepartum care are taught by the Staff members in charge of the cases. Students are also required to be present at Departmental Staff rounds each Wednesday morning during term.

Twelve bedside clinics are given in gynaecology by members of the Staff.

Eight lecture-demonstrations in Gynaecological Pathology are given by Doctor Latour and assistants who are also responsible for four hours of clinical instruction on the diagnosis and treatment of genital cancer.

Clinical Endocrinology is reviewed in four sessions of one hour.

Doctor Nickerson and Staff offer four lectures on New-born Paediatrics together with eight demonstrations in the nurseries.

Obstetrics textbooks: R. W. Johnstone and R. J. Kellar, Textbook of Midwifery, 17th ed. (Black 1957); N. J. Eastman, Williams' Obstetrics, 11th ed. (Appleton 1956).

Gynaecological textbooks: F. W. Roques, Diseases of Women, 9th ed. (Arnold 1953).

DEPARTMENT OF OPHTHALMOLOGY

Professor JOHN C. LOCKE, Chairman

Associate Professor Benjamin Alexander
J. V. V. Nicholls

Assistant Professor R. J. VIGER

Lecturers S. T. Adams R. A. Bourne L. S. S. Kirschberg

L. S. S. KIRSCHBERG SEAN B. MURPHY

WILLIAM TURNBULL
Demonstrators J. B. CONROV

HUGH DUNCAN R. W. PEARMAN R. B. RAMSEY

Teaching Fellow John A. Foreman

The undergraduate work in Ophthalmology is designed to meet the needs of a well-trained general practitioner and embraces the following courses in the Second, Third and Fourth years of the Medical course:

SECOND YEAR

1. ROUTINE EXAMINATION OF THE EYE.

The various tests used in routine examination of the eye are demonstrated. Instruction in the use of the ophthalmoscope is emphasized. Five hours.

2. PATHOLOGY OF THE EYE.

Six hours: two periods of three hours each.

THIRD YEAR

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9th ed

1. LECTURES TO THE ENTIRE CLASS.

These provide a survey of the entire field and are designed to furnish a background of essential information for the clinical work.

Twelve hours.

2. PRACTICAL OPHTHALMOSCOPY.

Montreal General and Royal Victoria Hospitals.

Nine hours.

3. ELECTIVE COURSE IN OPHTHALMOLOGY.

This four-week course is given three times during the latter half of the Third year. The number of students in any four-week period is limited to two. Most of the time is spent at the Montreal General and Royal Victoria Hospitals. Teaching in Paediatric Ophthalmology is divided between the Royal Victoria and Montreal Children's Hospitals. A varied and intensive program of practical and didactic instruction is provided.

The classes include attendance at general and special clinics, at ward rounds and seminars, and at formal demonstrations and tutorials. Scheduled periods in the eye operating room provide the opportunity to observe the more common operative procedures. The students are assisted in the preparation of an assigned topic which requires them to consult current ophthalmic literature. Instruction in specialized methods of examination of the eye is provided. Emphasis is placed on the participation of the eye in systemic diseases and on eye diseases which the general practitioner will be called upon to treat.

FOURTH YEAR

1. PRACTICAL CLINICAL OPHTHALMOLOGY

Cases from the eye outpatient and indoor services are presented and discussed. Emphasis is on ocular problems that are of greatest moment in general practice.

Nine hours.

Textbooks: Francis H. Alder, Gifford's Textbook of Ophthalmology, 6th ed. (Saunders, 1957); C. A. Perera, May's Manual of the Diseases of the Eye, 21st ed. (Williams and Wilkins, 1953).

Reference books: W. S. Duke-Elder, Textbook of Ophthalmology, 7 vols. (Mosby, 1932-54); Eugene Wolff, Anatomy of the Eye and Orbit (Blakiston, 1954); Eugene Wolff, Pathology of the Eye, 3rd ed. (Blakiston, 1951); Francis H. Adler, Physiology of the Eye, 3rd ed. (Mosby, 1959).

DEPARTMENT OF OTO-LARYNGOLOGY

Professor

W. J. McNally, Chairman

Assistant Professors

E. E. SCHARFE E. A. STUART

Lecturers

Н. Е. МсНисн

Demonstrators

J. D. BAXTER
ARNOLD GROSSMAN
R. HALL McCoy

G. T. SHIMO

E. John Smith

Instruction in Oto-Laryngology is given to students in each of the four years and is designed to meet the needs of the general practitioner. The clinical courses are conducted in the wards and out-patient departments of the Montreal General, the Royal Victoria and the Montreal Children's Hospitals. The practical demonstrations are given before small groups of students.

SECOND YEAR

Physical diagnosis is taught in the Second year in six demonstrations.

The students review the anatomy of the ears, nose and throat and are taught to use the head mirror and the special instruments more commonly used in the examination of these parts.

THIRD YEAR

Clinical instruction in the Out-door Clinics and wards is given to small groups in "block time" consisting of consecutive mornings for one week for each group. Twelve lectures on Ear, Nose and Throat subjects are given to this class as a whole during the third term.

FOURTH YEAR

Clinical instruction is carried out in the Out-patient departments in small groups and the students are given as much personal supervision as possible. The students attend two clinics per week for eight consecutive weeks and take an active part in the examination and treatment of the patients.

ELECTIVE COURSES

The new curriculum provides for Elective Courses of one month in this specialty or in combination with Ophthalmology.

Text and Reference Books: H. C. Ballenger and J. J. Ballenger, A Manual of Otology, Rhinology and Laryngology, 4th ed. (Lea and Febiger 1954); L. R. Boies, Fundamentals of Otolaryngology, 3rd ed. (Saunders 1959); Chevalier Jackson and C. L. Jackson, Bronchoesophagology (Saunders 1950); Chevalier Jackson and C. L. Jackson, Diseases of the Nose, Throat and Ear, 2nd ed. (Saunders 1957); W. W. Morrison, Diseases of the Ear, Nose and Throat, 2nd ed. (Appleton 1955); St. Clair Thomson and V. E. Negus, Diseases of the Nose and Throat, 6th ed. (Cassell 1955); A. Logan Turner, Diseases of the Nose, Throat and Ear, 5th ed. (Wright 1952); T. G. Wilson, Diseases of the Ear, Nose and Throat in Children (Heinemann 1955); G. D. Wolf, Ear, Nose and Throat (Lippincott 1947).

DEPARTMENT OF PAEDIATRICS

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Professor	ALAN Ross, Chairman
Associate Professors	R. L. DENTON
	A I TOUNGON
Assistant Professor	P. N. MACDERMOT
Demonstrators	H. L. Bacal Ben Benjamin J. H. O'Neill
Demonstrators	

Demonstrators	
P. BANISTER HELEN BRICKMAN J. S. CHARTERS D. K. CLOGG T. A. COWAN S. I. DOUBILET J. H. ELDER F. CLARK FRASER J. E. GIBBONS R. B. GOLDBLOOM VICTOR C. GOLDBLOOG R. GOURDEAU	ELIZABETH HILLMAN DAVID KLEIN A. J. MARKUS FRANCES MCCALL D. R. MCCRIMMON G. H. NICKERSON SYDNEY PEDVIS PIERRE SENECAL FREDERICK SHIPPAM HYMAN SURCHIN DM W. W. TIDMARSH S. J. USHER
ELEANOR HARPUR	ISOBEL WRIGHT
TO A TI	

D. A. HILLMAN	Lone norming H 11 (020)	
Teaching Fellows	M. M. BELMONTE	
	H. R. BRODIE	
	R. USHER	

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REQUIRED COURSES

LECTURES

- (a) CHILD DEVELOPMENT AND HUMAN RELATIONSHIPS
 In the course of twelve periods with the First year class, a child psychiatrist and a paediatrician collaborate at each session in presenting various aspects of child development from the prenatal period to adolescence. With the aid of patients and appropriate films, human relations and their development are discussed from the broadest possible point of view.
- (b) A series of 24 lectures once weekly during the Third year designed to cover the various aspects of Diseases of Children; Nutrition, Hygiene, Infections and Communicable Diseases, Preventive Medicine, etc. Staff
- 2. DISEASES OF THE NEWBORN: ROYAL VICTORIA MONTREAL MATERNITY HOSPITAL
 - (a) A weekly clinic demonstration to groups of students of the Third year during their obstetrical quarter.
 - (b) A weekly lecture to groups of Fourth year students during their four weeks in Obstetrics.
 - (c) A bi-weekly demonstration in the nurseries to the group of Fourth year students in residence during their four weeks in Obstetrics.

Staff

3. CLINICAL PAEDIATRICS

- (a) Groups during the final year spend eight weeks entirely at the Montreal Children's Hospital as clinical clerks taking part in bedside clinical conferences and, under supervision, caring for patients in the outpatient department.
- (b) Normal growth and development, the care and feeding of the normal infant, immunization procedures, and preventive paediatrics are taught at the Child Health Clinic in the Montreal Children's Hospital. Staff
- (c) A series of demonstrations to groups of students on the common infectious diseases is given at the Alexandra Hospital as part of the instruction of the final year.

 Staff

Textbooks: W. E. Nelson, Textbook of Pediatrics, 7th ed. (Saunders 1959); D. H. Paterson and J. F. McCreary, Pediatrics (Lippincott 1956).

Reference Books: J. P. Caffey, Pediatric X-ray Diagnosis, 3rd ed. (Year Bk. Pubs. 1956); A. G. DeSanctis and Chas. Varga, Handbook of Pediatric Medical Emergencies, 2nd ed. (Mosby 1956); J. L. Gamble, Chemical

Anatomy, Physiology and Pathology of Extracellular Fluid (Harvard Univ. Pr. 1954); A. L. Gesell, The Embryology of Behavior, the Beginnings of the Human Mind (Harper 1945); Morris Green and J. B. Richmond, Pediatric Diagnosis (Saunders 1954); Leo Kanner, Child Psychiatry, 3rd ed. (Thomas 1957); J. D. Keith, R. D. Rowe and Peter Vlad, Heart Disease in Infancy and Childhood, N.Y. (Macmillan 1958); C. A. Smith, The Physiology of the Newborn Infant, 3rd ed. (Thomas 1959); Lawson Wilkins, Diagnosis and Treatment of Endocrine Disorders in Childhood and Adolescence, 2nd ed. (Thomas 1957).

INSTITUTE OF PARASITOLOGY

Professor	T. W. M. CAMERON, Director
Associate Professors	D. FAIRBAIRN
Western annual in the state of the	M. Laird
Assistant Professors	R. P. HARPUR
	G. A. SCHAD
YEAR) YOULO	C. E. TANNER

Research Associates

G. Lubinsky
E. Meerovitch
G. A. Webster

REQUIRED COURSES

SECOND YEAR

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The animal parasites of man (protozoa, helminths and arthropods) are considered as an integral part of the Second year course in Medical Microbiology (see p. 1622). Exotic parasites are discussed briefly.

ELECTIVE COURSES

The Institute not only provides facilities for advanced research work at the Institute of Parasitology, but offers didactic courses in general and comparative parasitology and courses leading to the degrees of M.Sc., and Ph.D. (See Announcement of the Faculty of Graduate Studies and Research.)

Textbook: T. W. M. Cameron, The Parasites of Man in Temperate Climates, 2nd ed. (Univ. of Toronto Pr. 1946).

DEPARTMENT OF PATHOLOGY

Strathcona Professor G. C. McMillan, Chairman
Associate Professors W. H. Mathews
A. C. Ritchie
F. W. Wiglesworth

Assistant Professors D. S. KAHN

W. J. PIROZYNSKI

H. SHELDON

Lecturers G. MATHIESON Susan Ritchie

PAULA H. SCHOPFLOCHER

M. A. SIMON Demonstrators ILONA KERNER

J. P. LATOUR

S. MOORE

REQUIRED COURSES

- 1. COURSE IN GENERAL PATHOLOGY (FIRST YEAR)
 - A. Illustrated lectures during the Spring term totalling 36 hours. Professors McMillan and Ritchie
 - Practical laboratory classes during the Spring term totalling 72 hours. Professor Pirozynski and Demonstrators
- 2. COURSE IN SPECIAL PATHOLOGY (SECOND YEAR)
 - A. Illustrated lectures throughout the Second year totalling 72 hours. Professor McMillan and Staff
 - B. Practical laboratory classes throughout the Second year totalling 72 hours.
 - C. Group demonstrations throughout the Second year totalling 72 hours. Staff
- 3. COURSE IN APPLIED PATHOLOGY (THIRD AND FOURTH YEARS)
 - A. Clinico-pathological Conferences alternate weeks throughout the Third year totalling 54 hours. Professor McMillan and Staff
- B. Instruction in the performance of autopsies with demonstration of autopsy findings during the Fourth year.

Pathological Institute

Professor Pirozynski

Montreal General Hospital

Professor Mathews

The Montreal Children's Hospital

Professor Wiglesworth

Textbooks: W. A. D. Anderson, Pathology, 3rd ed. (Mosby 1957); Wm. Boyd, A Textbook of Pathology, 6th ed. (Lea and Febiger 1953); Wm. Boyd, Pathology for the Surgeon, 7th ed. (Saunders 1955); Wm. Boyd, Pathology for the Physician, 6th ed. (Lea and Febiger 1958).

Reference Gooks: J. G. Greenfield et al., Neuropathology (Arnold 1958); G. D. Lumb, Tumours of Lymphoid tissue (Livingstone 1954); E. Novak, and E. R. Novak, Gynecologic and Obstetric Pathology, 4th ed. (Saunders 1958); R. A. Willis, Pathology of Tumours, 2nd ed. (Butterworth 1953).

DEPARTMENT OF PHARMACOLOGY

Professor

K. I. MELVILLE, Chairman

Assistant Professors B. G. Benfey

N. R. EADE

Lecturers

L. E. FRANCIS G. E. JORON H. E. SHISTER

Demonstrators R. A. MILLAR

The object of the course in pharmacology is to elucidate, as far as knowledge permits, the action of drugs, and thereby lay a sound foundation for drug therapy.

REQUIRED COURSES

1A. PHARMACOLOGY

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The action of drugs is considered on the basis of information derived by means of experimental methods and careful clinical observation. The chemistry of the drugs studied is emphasized in order that the student may have a good foundation upon which to follow future developments of the subject intelligently.

Two lectures a week during the Autumn and Winter terms. Second

1B. PHARMACOLOGICAL LABORATORY

The experiments are chosen to illustrate the lecture course.

One period (three hours) a week during the Autumn and Winter terms.

CONFERENCES

During the year four conferences of 45 minutes each and limited to six students, will be arranged. These conferences will replace the regular laboratory periods at the times specified.

LECTURE-DEMONSTRATIONS

In conjunction with the Department of Medicine (Therapeutics) a series of six (6) one hour lecture-demonstrations is held in the Teaching Hospitals during the course. These are designed to present selected clinical cases illustrating practical applications of drug usage.

2. TOXICOLOGY

A course of ten lectures devoted to the problems of acute poisoning (occurence, symptoms, modifying factors, diagnosis and treatment), is given during the 3rd term of the Second year.

Dr. G. E. Joron

Textbooks: Harry Beckman, Drugs, their Nature, Action and Use (Saunders 1958); Applied Pharmacology (Clark), 9th ed., by Andrew Wilson and H. O. Schild (Churchill 1959); V. A. Drill, Pharmacology in Medicine, 2nd ed. (McGraw-Hill 1958); L. S. Goodman and A. Z. Gilman, Pharmacological Basis of Therapeutics, 2nd ed. (Macmillan 1955); J. C. Krantz and C. J. Carr, Pharmacologic Principles of Medical Practice, 4th ed. (Williams and Wilkins 1958).

ELECTIVES

Suitably prepared students may undertake special research or training projects under direction of a staff member at any time, by application to the Chairman of the Department.

Advanced courses leading to the degrees of M.Sc. or Ph.D. will be arranged to suit individual cases. See Announcement of the Faculty of Graduate Studies.

DEPARTMENT OF PHYSIOLOGY

Joseph Morley Drake Professor F. C. MACINTOSH, Chairman

Prefessors A. S. V. Burgen

B. D. Burns

Assistant Professors R. I. BIRKS
SIMON DWORKIN

BERNICE GRAFSTEIN

PAUL SEKELJ

KATHLEEN G. TERROUX

CARL PINSKY
C. M. McBride
E. J. Reininger

O. M. SOLANDT

HYMAN WEINER

Sessional Lecturer

REQUIRED COURSES

FIRST YEAR

BIOCHEMISTRY—PHYSIOLOGY 1.

Lecturers

Monday to Friday, at 9 a.m.

BIOCHEMISTRY—PHYSIOLOGY 1D.

Demonstrations and tutorials: one hour a week.

BIOCHEMISTRY—PHYSIOLOGY 1L.

Laboratory: six hours a week.

This is an integrated course of lectures, tutorials, demonstrations and laboratory work, given by the two departments.

INTRODUCTION TO MEDICINE

One hour a week, from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are conducted in turn by the Departments of Anatomy, Biochemistry, and Physiology.

SECOND YEAR

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2. ANATOMY AND PHYSIOLOGY OF THE CENTRAL NERVOUS SYSTEM

Two hours lecture, two hours laboratory, and one hour demonstration a week, during the second term.

This is one course, given by the Departments of Anatomy, Neurology and Neurosurgery, and Physiology.

ELECTIVE COURSES

1E. SELECTED TOPICS IN PHYSIOLOGY

These are discussed from the point of view of current research in the Department.

2 hours a week.

3E. RESEARCH IN BIOCHEMISTRY AND PHYSIOLOGY

A limited number of students may take Biochemistry or Physiology as elective subject in their Third year. These students will be given the opportunity of participating in departmental research projects.

DEPARTMENT OF PSYCHIATRY

Professors D. E. Cameron, Chairman
A. E. Moll
Associate Professors R. A. Cleghorn
T. E. Dancey

H. LEHMANN
A. W. MACLEOD
R. B. MALMO
M. SAFFRAN

T. L. Sourkes
Taylor Statten
E. D. Wittkower

BARUCH SILVERMAN

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A	55251	ant	Pro	fessors

S. Albert J. AUFREITER H. AZIMA T. J. BOAG C. Bos H. CAPLAN B, M. CORMIER J. F. Davis P. EDGELL H. F. ELLENBERGER N. B. Epstein L. G. HISEY WATER SUCVED ANTICO SHE TO VOV. A. KRAL VACCIONA S

H. B. Murphy M. S. RABINOVITCH C. A. ROBERTS

Lecturers

G. AUFREITER H. KRAVITZ F. AZIMA ALAN MANN S. BARZA L. MERGLER R. H. PRINCE I. BEAUBIEN M. K. BIRMINGHAM G. J. SARWER-FONER C. H. CAHN C. H. SKITCH H. B. DUROST C. C. SMITH B. GRAD J. C. STANLEY R. C. M. HAMILTON W. STRAKER BRIAN HUNT R. C. A. HUNTER G. C. TAYLOR S. WILNER

Demonstrators

R. L. DE VERTEUIL F. W. LUNDELL K. FERGUSON J. MACKAY G. HANRAHAN H. F. MULLER W. G. KRAUSER J. NAIMAN J. L. LAPOINTE G. O. PATTON E. LESTER P. D. ROPER D. LEVIN A. RUSSELL L. LEVY R. M. SMITH E. LIBMAN W. J. STAUBLE Z. J. LIPOWSKI

REQUIRED COURSES

FIRST YEAR

GROWTH, DEVELOPMENT AND HUMAN RELATIONSHIPS: A total of 16 hours, the first two being introductory lectures in psychobiology. The remaining hours of the course will include technique of child examination, diagnosis of child psychiatric states, child psychiatric problems as seen in various treatment facilities, including paediatrics out-patient clinic.

Professors Cameron, Statten, Ross (Paediatrics) and Staffs

SECOND YEAR

Two courses of lectures: (a) 12 1-hour lectures on psychopathology; (b) 12 2-hour sessions on psychiatric case studies, with case presentation.

Professors Roberts, Lehman and Staff

THIRD YEAR

Six weeks block teaching, distributed among six teaching centres, to acquaint students with the examination of patients and understanding of some of the major factors involved in abnormal behaviour. Diagnostic procedures, psychotherapeutic and physical methods of treatment, will be among the aspects covered. During this year students will be provided with tutors on a group basis and will also have more specialized training in the areas of child psychiatry, community psychiatry and mental disorders.

Professors Cameron, Moll, Dancey, Roberts, Statten, Silverman and Staffs

FOURTH YEAR

The teaching in this year will be largely focused on clerkship. Students will attend tutorials, ward rounds, seminars, conferences, etc., at the Allan Memorial Institute, Montreal General Hospital and Queen Mary Veterans Hospital.

Professors Cameron, Moll, Dancey and Staffs

DEPARTMENT OF RADIOLOGY

Professor CAI	RLETON B. PEIRCE, Chairman
Associate Professors	J. J. L. BOUCHARD D. L. MCRAE D. J. SIENIEWICZ
Assistant Professors Assistant Professor	E. F. Crutchlow J. S. Dunbar R. G. Fraser
of Physics	L. G. Stephens-Newsham
Lecturers	N. M. Brown R. M. Cunningham B. B. Hale M. N. Lougheed

Demonstrators D. Berger anomics at pess as smaldern state leven bill. F. A. Grainger bilde to siado Justien de considera partero J. J. Hazel comport F. R. MacDonald T. F. B. PHILIPS

FIRST YEAR

In co-operation with the Department of Anatomy, illustrative demonstrations for the course in "Living Anatomy" are available on the roentgenologic anatomy of the skeletal, respiratory, gastro-intestinal, and urogenital systems, especially in regard to functional anatomy of joints, the thoracic viscera, and the alimentary tract.

Professor Peirce and Staff

SECOND YEAR

INTRODUCTION TO RADIOLOGY

A course of twelve lectures is designed to (a) familiarize the medical student with the principles of radiation physics and radiation biology; (b) introduce the student to the basic principles of diagnosis and therapy by means of ionizing radiations; and (c) demonstrate the uses and limitations of radiological methods of examination and treatment in medicine. The physical characteristics of ionizing radiations (x-rays, alpha, beta and gamma radiations of the natural and manufactured radioactive isotopes) and their biological effects on tissues are discussed and demonstrated. This is followed by consideration and demonstration of the application of these features to the investigation of the structure and function of the various organic systems and supporting structures of the body in medical examination and diagnosis. Similarly these features are considered as agents in the treatment of neoplasia and other functional abnormalities in disease. Illustrative material is used extensively.

Professor McRae

During his study of physical diagnostic methods the student's introduction to the uses of radiologic methods will be amplified by observation of fluoroscopic examinations of the cardio-respiratory and gastro-intestinal tracts and through demonstrations of other roentgenologic studies.

Professors Peirce and Sieniewicz and Staff

THIRD YEAR

(a) Clinical applications of the diagnostic and therapeutic uses of ionizing radiations are discussed and demonstrated to the several clinical groups of students attending both Medicine and Surgery for periods of at least one and one-half hours per week in each of the major teaching hospitals.

The case material is so arranged that during the four such eight-week periods in the Third and Fourth years a wide field of systemic or organic diseases is covered in regard to diagnosis and the general principles of therapeutic application demonstrated, including some acquaintance with the uses of radioactive isotopes, both diagnostically and therapeutically. Professors Peirce, Bouchard and Sieniewicz and Staff

(b) Elective: Third year students who choose Radiology as their elective field are assigned a tutor under whose guidance they are able to devote as much of their time and energy as possible to the study of radiologic investigation or treatment of disease. Each is required to select some special topic for investigation and the preparation of an essay on the subject which he presents formally before the staff of the Department in the respective hospital.

Professors Peirce and Sieniewicz and Staff

FOURTH YEAR

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Clinical applications of the diagnostic and therapeutic uses of ionizing radiations are continued as in the Third year in weekly periods of at least 1½ hours each while attending Medicine and Srugery in the general teaching hospitals, and in addition each group attending Paediatrics has at least an hour per week on radiologic manifestations of disease in infancy and chilhood.

Professors Peirce, Bouchard and Sieniewicz, Assistant Professor Dunbar and Staff

Text and Reference Books: A. E. Barclay, The Digestive Tract, 2nd ed. (Camb. Univ. Pr. 1936); J. P. Caffey, Pediatric X-ray Diagnosis, 3rd ed. (Year Bk. Pubs. 1956); Otto Glasser, et al., Physical Foundations of Radiology, 2nd ed. (Harper 1952); Ross Golden, et al., Diagnostic Roentgenology, 3 vols. (Nelson 1936-41); F. J. Hodges, et al., Radiology for Medical Students, 3rd ed. (Year Bk. Pubs. 1958); G. W. Holmes, and L. L. Robbins, Roentgen Interpretation, 8th ed. (Lea and Febiger 1955); Alban Kohler, Roentgenology, 2nd ed. (Bailliere 1935); Isadore Meschan, An Atlas of Normal Radiographic Anatomy, 2nd ed. (Saunders 1959); Isadore Meschan, Roentgen Signs in Clinical Diagnosis (Saunders 1956); E. P. Pendergrass, J. P. Schaeffer and P. J. Hodes, Head and Neck in Roentgen Diagnosis, 2nd ed. 2 vols. (Thomas 1956); E. A. Pohle, Theoretical Principles of Roentgen Therapy (Lea and Febiger 1938); LeRoy Sante Principles of Roentgenological Interpretation, 11th ed. (St. Louis Bk. Distrib. Co. 1958); S. C. Shanks and P. J. Kerley, Textbook of X-ray Diagnosis, 3rd ed. 4 vols. (Saunders 1957-60); M. B. Wesson, Urologic Roentgenology, 3rd ed. (Lea and Febiger 1950); W. H. Beierwaltes, P. C. Johnson and A. J. Solari, Clinical Use of Radioisotopes (Saunders, 1957); Joseph Selman, The Fundamentals of X-Ray and Radium Physics, 2nd ed. (Thomas 1958); Friedrich Ellinger, Medical Radiation Biology, (Thomas 1957).

POSTGRADUATE INSTRUCTION

DIPLOMA IN RADIOLOGY

Details of the Postgraduate course leading to the Diploma in Radiology of the Faculty of Medicine may be obtained from the Dean's Office or the Chairman of the Department.

Postgraduate training prerequisite to certification in the specialty by the Royal College of Physicians and Surgeons (Canada) or the American Board of Radiology is available in the teaching hospitals in conjunction with the Diploma Course for selected graduates of approved Faculties or Schools of Medicine.

DEPARTMENT OF SURGERY

Professors	H. R. ROBERTSON, Chairman
	D. R. Webster
Associate Professors	F. N. Gurd
	G. R. McCorriston
	S. J. MARTIN
	D. R. MURPHY

Assistant Professors

S. G. BAXTER	C. A. McIntosh
C. M. GARDNER	E. A. MACNAUGHTON
J. W. GERRIE	H. S. Morton
G. A. HOLLAND	H. F. Moseley
J. C. Luke	J. D. PALMER

Lecturers

H. A. BAXTER	J. C. SUTTON
W. M. COUPER	A. M. VINEBERG
J. C. DICKISON	F. M. WOOLHOUSE

Demonstrators

A. R. BAZIN H. E. BEARDMORE J. A. DRUMMOND M. A. ENTIN R. L. ESTRADA J. F. HOPKIRK A. F. JONES	R. N. LAWSON R. C. LONG H. F. OWEN D. W. RUDDICK H. J. SCOTT ISRAEL SHRAGOVITCH J. L. SHUGAR E. J. TABAH	
0	E. J. TABAH A. G. THOMPSON	

ORTHOPAEDIC SURGERY

Assistant Professors

J. G. Petrie
J. G. Shannon

Lecturers

A. A. Butler
J. A. L. Walker

Demonstrators

J. M. McIntyre

Robert G. Townsend
C. Laird Wilson

UROLOGY

Assistant Professor R. G. REID

Lecturers S. A. MacDonald
J. T. MacLean

Demonstrators K. J. MacKinnon
C. A. Moore

REQUIRED COURSES

SECOND YEAR

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Surgical teaching begins in the Spring term (12 weeks) of the Second year. In this year special attention is directed to the instruction and training of the student in proper methods of physical examination from the surgical point of view.

- 2A. A COURSE OF LECTURES (12) is given covering the basic principles of Surgery.
- 2B. GROUP CLASSES in the wards of the Montreal General and Royal Victoria and Queen Mary Veterans Hospitals. At these, small groups of students are instructed in methods of examination as applied to surgery and its allied specialties.

THIRD YEAR

The student comes into a more intimate contact with the patients, and in the surgical term of eight weeks is assigned cases, writes case reports, acts as dresser, and assists at operations. His clinical work is confined to one hospital—either the Montreal General Hospital or the Royal Victoria Hospital.

- 3A. LECTURES IN SURGERY in the Montreal General and Royal Victoria Hospitals, one day a week throughout the year.
- 3B. GROUP WARD CLASSES in the Montreal General and the Royal Victoria Hospitals, five times a week during the term.
- 3C. CASE REPORTING. Patients are allotted to students who act as reporters, dressers, and assistants at operations.

FOURTH YEAR

In the Final year the student spends eight weeks attached to the surgical service of a hospital. Students taking their surgical instruction at the Montreal General Hospital are required to live in for a period of four weeks during their term in general surgery. Those taking instruction at the Royal Victoria Hospital are required to live in for two weeks (one week while in anaesthesia and one week urology).

SURGICAL DISEASES OF CHILDREN

Some instruction in the surgical diseases of children is given during the trimester in which the students are assigned to paediatrics at the Montreal Children's Hospital as follows:

4A. GROUP WARD CLASSES three times a week throughout the trimester.

In their Final year students attend either the Shriners Hospital or the Montreal Children's Hospital for further instruction in paediatric surgery.

ORTHOPAEDIC SURGERY

Some lectures covering the basic principles of orthopaedic surgery are given in the Second and Third years and members of the Orthopaedic Staffs of the Montreal General Hospital and Royal Victoria Hospital participate in the Second and Third year bedside clinics.

In the Final year seminars are conducted by members of the Orthopaedic Staff.

UROLOGY

In the Final year students are assigned to the Urological Services of the Montreal General Hospital and Royal Victoria Hospital for one week and, in addition to this, ward classes are held three times a week in each hospital.

Textbooks:

General Surgery: Ian Aird, Companion in Surgical Studies, 2nd ed. (Livingstone 1956); Hamilton Bailey, Demonstration of Physical Signs in Clinical Surgery, 12th ed. (Williams and Wilkins 1954); Christopher's Minor Surgery, ed. by Alton Ochsner and M. E. DeBakey, 8th ed. (Saunders 1959); Frederick Christopher, Textbook of Surgery, 7th ed. (Saunders 1960); W. H. Cole and Robt. Elman, Textbook of Surgery, 7th ed. (Appleton 1959); H. F. Moseley, Textbook of Surgery, 3rd ed. (Mosby 1959).

Surgical Anatomy: A. Lee McGregor, Synopsis of Surgical Anatomy, 8th ed. (Williams and Wilkins 1957).

Fractions and Dislocations: R. Watson Jones, Fractures and Joint Injuries, 4th ed., 2 vols. (Livingstone 1952-1955).

Urology: M. F. Campbell, Urology, 3 vols. (Saunders 1954); F. H. Colby, Essential Urology, 3rd ed. (Williams and Wilkins 1956); D. N. Eisendrath and H. C. Rolnick, Urology, 4th ed. (Lippincott 1938); R. Nesbit, Fundamentals of Urology, 4th ed. (Reed Miller Co. 1953).

Orthopaedic Surgery: W. C. Campbell, Operative Orthopaedics, 3rd ed., 2 vols. (Mosby 1956); Walter Mercer, Orthopaedic Surgery, 5th ed. (Arnold 1959).

GRADUATE INSTRUCTION

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- 1. Any medical graduate of McGill University who so desires may attend any of the regular undergraduate clinics. This opportunity frequently appeals to many of our graduates, who find in this plan a means of bringing their knowledge of medicine up to date.
- 2. Special graduate work is offered in every department, both in the laboratories and in the clinics. Applications in writing, addressed to the chairman of the department concerned, must state the qualifications and experience of the applicant and the nature of the work he desires to do, The minimum fee is \$30.00 a term (10 weeks).

A Diploma in Tropical Medicine and Hygiene is granted by McGill University.

This course is conducted by the Department of Health and Social Medicine, with the collaboration of other departments in the Faculty of Medicine and the assistance of members of other faculties in the University who have a special interest in this field.

The Department of Health and Social Medicine is housed in quarters at 515 Pine Avenue West, within easy access of the Medical Building. The building contains ample accommodation for lectures, seminars, and demonstrations. In addition to the excellent facilities of the Library of the Faculty of Medicine, which are at the disposal of students, the Department has its own library and reading-room. The building is also the headquarters of the Student Health Service.

DIPLOMA IN TROPICAL MEDICINE AND HYGIENE (D.T.M. & H.)

The course of instruction occupies a full academic year. Classes for the first term include bacteriology and immunology, epidemiology, environmental hygiene, industrial hygiene, and public health organization and

administration, vital statistics, biometrics, maternal, infant, pre-school and school hygienes, etc. Those for the second term are held at the Institute of Parasitology at Macdonald College of McGill University. The teaching collection at the Institute is a large and representative one.

The work is practical as well as theoretical, and includes a study of Parasitology and Medical Entomology, laboratory diagnoses of tropical and sub-tropical diseases, and lectures on the diseases of the tropics, on tropical hygiene, and minor sanitation.

Clinical instruction must, of necessity, be limited in temperate climates. This aspect is, therefore, deferred to the final part of the course which is given in the tropics at the conclusion of the didactic instruction. The course consists of clinical and field work for which arrangements have been made with Georgetown, British Guiana, Port of Spain, Trinidad, and Venezuela.

Candidates for the Diploma in Tropical Medicine and Hygiene must be graduates in medicine of a recognized university. Certain additional courses may be required of those who are not recent graduates or of those who have not had sufficient clinical practice.

The Fee for the Diploma in Tropical Medicine and Hygiene is \$250, or \$100 if preceded by a D.P.H. course or its equivalent.

Application must be made prior to June 1st.

BUILDINGS -

THE MEDICAL BUILDING

This building contains the Offices of Administration, the Medical Library (with its 90,000 volumes, its Reading Rooms, and their complete set of technical journals), the Department of Anatomy, and the Museum of Anatomy. The Faculty of Dentistry is also in this Building.

The Department of Anatomy, with its commodious laboratories, its dissecting room, with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who desire opportunities for research are adequately cared for in this Department. The laboratories for Histology and Embryology have excellent facilities with space for 120 students, and smaller rooms for research.

THE BIOLOGICAL BUILDING

Completed in 1922, this building was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. The

extensive structure—184 feet by 60 feet—houses on each of its floors laboratories devoted respectively to Botany, Zoology, Genetics, Biochemistry, Physiology, and Pharmacology.

Each of these departments is provided with laboratories and units for undergraduate teaching and graduate research.

THE PATHOLOGICAL INSTITUTE

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artllent This building, which was opened for use in October, 1924, and which is connected with the Royal Victoria Hospital and the Montreal Neurological Institute by tunnels, is situated on the northeast corner of University Street and Pine Avenue, adjacent to the Medical Building. It provides accommodation for the departments of Pathology and Bacteriology and includes a Pathological Museum and museum workshops. It combines under one roof quarters for teaching and research in these departments, and it provides ample facilities and equipment for instruction of students, and the research work of the Staff.

THE MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. Unsurpassed in its equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neurosurgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine. In addition to wards, operating rooms, and laboratories for treatment and study of diseases of the nervous system, the building provides facilities for graduate study and research in the related fields of basic science.

THE ALLAN MEMORIAL INSTITUTE

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building was reconstructed to permit of the establishment of a fifty bed unit, together with extensive research laboratories, and was officially opened July 12th, 1944. Since that time, both undergraduate and postgraduate teaching have been carried on.

THE DONNER BUILDING

The Donner Building for Medical Research, adjacent to the Medical Building, was completed in September 1948. Its erection was made possible through the generosity of William H. Donner of Philadelphia, the late founder of the International Cancer Research Foundation, who provided the funds necessary for the construction of a building entirely devoted to medical research.

This building houses the Maxwell Lauterman Laboratories for Experimental Surgery and laboratories for Dentistry and Experimental Psychology.

HOSPITALS

Few medical schools on this continent offer better facilities than those enjoyed by the students of McGill University. Ideal academic and topographical conditions exist for the teaching of scientific and practical medicine.

The Medical Faculty is on the University Campus, and is thus in juxtaposition to the scientific laboratories of the University and to the largest teaching hospital in the city. Co-operation with the scientific and cultural departments of the University, as well as with clinical facilities, is thereby made easy.

The following hospitals and institutions are at the disposal of the teaching staff and students for clinical and pathological study:

Royal Victoria Hospital

Montreal General Hospital

Montreal Children's Hospital

Alexandra Hospital for Infectious Diseases

Verdun Protestant Hospital

Royal Edward Laurentian Hospital

Royal Victoria Montreal Maternity Hospital

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical Faculty. These affiliated hospitals contain over 3,000 beds.

The Royal Victoria Hospital, in juxtaposition to the University buildings, comprises the following units under one administration:

- 1. The Royal Victoria Hospital proper, or the Main Building;
- 2. The Ross Memorial Pavilion for private patients;
- 3. The Women's Pavilion-Royal Victoria Montreal Maternity;
- 4. The Allan Memorial Institute.

The total bed complement is 919, with 96 bassinets. Admissions total approximately 20,000 and confinements are in excess of 3,000 a year. There are some 80,000 visits annually to the Out-Patient Department. The University Clinic was established in 1924 and has facilities for both clinical laboratory work and research.

Post-mortems total 55 per cent of the deaths.

The number of resident physicians is 106.

The Royal Victoria Montreal Maternity Pavilion, with 214 beds for obstetrical and gynaecological cases. In this institution there are 117 teaching beds and an organized out-patient service which is of the greatest benefit to the undergraduate student. In a typical year, the obstetrical service cared for over 3,000 confinements in the Hospital. In the gynaecological section, over 2,000 cases are admitted during the year.

There are ten resident physicians.

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The Montreal General Hospital is a general hospital of 750 beds for the treatment of acute diseases. In a typical year, there were approximately 18,000 admissions, while out-patient consultations for the same period approximated 150,000. The resident and interne staff numbers 150.

The "Montreal General" was founded in 1821; two smaller buildings downtown had preceded it in 1816 and 1819. In actual age, therefore, it is not by any means the oldest hospital in Canada, but its record in clinical teaching is one of the longest on the North American continent.

As soon as the Hospital opened, its staff began to arrange for students and, in 1823, they opened the first Medical School in Canada, the Montreal Medical Institution, with 25 students. Their teaching was carried on partly at the Hospital.

It was this School which agreed to form the Medical Faculty of McGill University in 1828. The University at that time had practically no students of any kind, and as it was required by the terms of the McGill bequest that teaching should begin before 1829, on penalty of losing the estate, The Montreal Medical Institution, with its ready-made course came as a salvation. That was the beginning of the long and intimate association between the Hospital and the University.

The present building on Cedar Avenue was occupied in 1955.

The Montreal Children's Hospital has 291 public beds, and, in a typical year, admitted 6,000 patients. The attendance at its out-door department totalled over 60,000 visits. This hospital admits all classes of cases of disease in children except pulmonary tuberculosis and the communicable diseases, and enables students to get a broad concept of paediatrics.

There were 111 autopsies in a typical year, which represented 84.6% of all deaths.

The number of resident physicians is 40.

The Alexandra Hospital for Infectious Diseases, opened in 1906, with modern wards, cubicles, and equipment, is regularly attended by students, who receive demonstrations on the essential features of the exanthemata.

There are three wards for the treatment of tuberculosis in children. There are 150 beds (including 50 for tuberculosis) and the average yearly admissions range between 1,500 and 2,000.

There is a resident senior physician and there are three junior physicians.

The Verdun Protestant Hospital has 1,100 beds.

The Royal Edward Laurentian Hospital (Montreal Division), 3674 St. Urbain Street, consists of a large anti-tuberculosis dispensary and a 151-bed hospital unit designed and equipped for thoracic surgery. Its objectives are the study, prevention, and cure of tuberculosis. This Hospital, along with its Laurentian Division (located in Ste. Agathe des Monts) offers students excellent opportunities to obtain instruction in all aspects of chronic pulmonary disease, more particularly pulmonary tuberculosis.

THE MEDICAL LIBRARY

Medical Librarian

Honorary Librarian LLOYD G. STEVENSON GRACE HAMLYN

The Library, now of nearly 90,000 bound volumes, originally occupied the central front section of the medical building but has expanded its stack area to the north side on the two lower floors.

The Reading Room with accommodation for seventy-five people is on the fourth floor with a small periodical room adjacent. The third floor contains the stacks for bound journals and has three study rooms for use of members of the teaching staff. The second floor is devoted to administration and technical operations.

The chief value of the Library is in its periodical collection. Over 1,500 journals are subscribed to currently and many are received by gift. Journal literature in almost all languages is well represented. The book collection is especially noteworthy in the ophthalmological section due in large measure to many gifts from the late Dr. Casey A. Wood.

The Library is for members of the teaching staff and students of the Faculty, and of the whole University, and for research workers and doctors in the city. An extensive interlibrary loan service throughout the country is maintained and books and journals are sent to doctors who are not near a library on payment of postage charges.

The Library is open during the academic session from Monday to Friday, 9 a.m. to 10 p.m.; Saturday 9 a.m. to 5 p.m. After June 15th the hours are 9 a.m. to 5 p.m. Monday to Friday, closed Saturday.

There are also small collections of books and journals located in several of the Departments of the Faculty.

THE OSLER LIBRARY

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This special library of the history of medicine and science, collected by Sir William Osler with a view to its educational value, was bequeathed by him to his Alma Mater. The Osler Library, which comprises nearly 12,500 volumes, occupies a large room, beautifully equipped, on the fourth floor, convenient to the Medical Library. The collection is rich in early editions of the older literature, as well as in modern historical works, and its importance and usefulness are much enhanced by the donor's annotated catalogue. Planned and prepared by Osler along very unusual lines, the catalogue was completed, indexed, and printed after his death (Bibliotheca Osleriana, Clarendon Press, Oxford, 1929, xxxvi, 785 pp.).

The books are classified in eight sections, of which the first, the "Bibliotheca Prima," presents a bibliographical outline of the evolution of science (including medicine), and was planned to contain the essential literature arranged chronologically under the names of the greatest contributors to the advancement of knowledge. Another feature of the Library is its Incunabula, a valuable collection of 150 books printed in the fifteenth century. Recently the Wellcome Trust has given generous annual grants for the purchase of expensive books to fill gaps in the Osler collection.

The Osler Library is open daily, except Sunday, for the use of undergraduates and all who are interested. The Librarian will be glad to give advice or informal instruction to students. Accommodation is provided for readers. The books belonging to the original collection may not be borrowed or removed from the Library, but this restriction does not apply to the current works on the history and biography of medicine and science which are constantly being added.

MEDICAL SOCIETIES

McGILL UNDERGRADUATE MEDICAL SOCIETY

The Society is composed of the registered students of the faculty. Its purpose is:

- (1) To transact all matters of business connected with the undergraduate body;
- (2) To stimulate interest along medical lines;
 - (3) To assist students to express themselves in public with facility;
- (4) To provide an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.

(5) To organize, during the course of the school year certain outside activities such as the annual Medical Banquet and Ball.

Monthly meetings are held at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter, and three Councillors (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

The society also maintains the Students' Reading Room. English and American journals, as well as the leading daily newspapers are kept on file.

ALPHA OMEGA ALPHA HONORARY MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate, and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the Third and Fourth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

OSLER SOCIETY

The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes men from each class in the faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.

McGill University Montreal

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Faculty of Medicine

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine (Undergraduate courses)

Faculty of Medicine (Postgraduate courses)

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Library School

Institute of Education

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture, and School of Household Science)

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. Limited distribution.)

The Calendar (Available for distribution only to libraries and officials of certain institutions.)

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McGill University

FACULTY OF MEDICINE

ADMINISTRATIVE OFFICERS

F. Cyril James, Chevalier de la Légion d'Honneur, B.Com., M.A., Ph.D., D.Sc., D. de l'U., D.C.L., LL.D., F.R.S.C. Principal

DAVID L. THOMSON, M.A., Ph.D., D.Sc., LL.D., F.C.I.C., F.R.S.C.

Vice-Principal

LLOYD G. STEVENSON, B.A., M.D., Ph.D.

Dean of the Faculty
EDWARD H. BENSLEY, M.B.E., B.A., M.D., F.A.C.P.

Associate Dean

F.A.C.P. Associate Dean and Secretary of the Faculty

S. M. BANFILL, M.B.E., B.A., M.D., C.M.

Assistant Dean

COLIN M. McDougall, D.S.O., B.A.

Registrar

G. A. GRIMSON, B.Com.

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Comptroller

RICHARD PENNINGTON, B.A., Lib.Dip.

University Librarian

Special Announcements are available for the School of Physical and Occupational Therapy, and the School for Graduate Nurses.

A complete list of the teaching staff of the University, including the Faculty of Medicine, is printed as a separate Announcement, which may be obtained from the Registrar's Office.

Faculty of Medicine

The one hundred and twenty-ninth session of the Faculty will open on September 6th, 1961, for students of all years.

Students may enter the Faculty of Medicine in one of two ways. A limited number will be admitted from high school to the Double Course in Science and Medicine. Most will be admitted from college to the four-year medical course.

A. DOUBLE COURSE IN SCIENCE AND MEDICINE

REQUIREMENTS FOR ENTRANCE

Students of high calibre and first-rate academic attainment will be admitted to the First year of this programme after successfully completing Junior Matriculation. They will be enrolled directly in the Faculty of Medicine and at the same time in the Faculty of Arts and Science. In exceptional circumstances students will be admitted to the Second year of the seven-year course when they have obtained high standing in Senior Matriculation. A joint committee of the two Faculties concerned will select the successful candidates.

DESCRIPTION OF COURSE

Duration: Seven years from Junior Matriculation, six years from Senior Matriculation.

Required Subjects: Physics, Chemistry, Organic Chemistry, Biology and one course in English, together with the standard medical curriculum.

Elective Subjects: Eleven additional courses in Arts and Science as approved by the Dean of the Faculty of Arts and Science and the Dean of the Faculty of Medicine.

Organization: Medical courses will begin before the Science courses are completed and courses in the Faculty of Arts and Science will continue for two years after students begin the study of Medicine.

Degrees: B.Sc. (after 5 years), M.D., C.M. (after 7 years).

APPLICATION FOR ADMISSION

It is recommended that application should be made by June 1st, 1961 to the Registrar of McGill University, Montreal 2, Canada. Application forms may be obtained from the Registrar's Office.

B. FOUR-YEAR COURSE IN MEDICINE

REQUIREMENTS FOR ENTRANCE

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1. (a) Total Academic Credits:

The minimum requirement for admission to the medical course is the satisfactory completion of three full years of study in a recognized college or Faculty of Arts and Science (or the equivalent thereof).

(b) Scientific Requirements:

In the scientific branches, certain subjects are specifically required: Chemistry, two full courses, including General Chemistry and Organic Chemistry, with laboratory work.

Physics, one year with laboratory work.

Biology, or Zoology, one year with laboratory work. (Of this, a half year must consist of Zoology.)

(c) Cultural Requirements:

These must be selected in such a way as to be in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. These would commonly include credits in English Literature and Composition and in Mathematics. It is advisable for each applicant to present evidence of such preparation.

- (d) All candidates for admission to the Medical Faculty are required to take the Medical College Admission Test conducted by the Psychological Corporation or furnish a satisfactory explanation of why they are unable to do so.
- 2. In selecting courses, in addition to the specific requirements listed above, the intending medical student should plan his pre-medical course as a whole, and in accordance with a definite educational objective. Emphasis should be laid on the broad educational value and the intellectual training afforded, rather than on the factual content of such pre-medical curricula; the student is therefore advised to plan his course in such a way as to provide more than elementary training in some definite field of learning which appeals to him; this major field may be selected from the Natural or the Social Sciences or the Humanities. Certain subjects which though not essential have been found valuable in medical study, and which may be included as electives if the curriculum in the major field permits, are Psychology, Sociology, and Genetics.

In general, students are advised not to anticipate medical school courses in Physiology, Histology, Bacteriology, and Biochemistry at the expense of a fundamental training as outlined above.

On the other hand, for students who desire a preparation in excess of the minimum requirements, a considerable degree of specialization in the sciences, such as Honours graduation, or a Master's degree, in Physics, Chemistry, Biochemistry, Biology, Physiology, or Bacteriology, may prove to be desirable and advantageous.

The students' attention is called to the memorandum printed in the Announcement of the Faculty of Arts and Science, for the guidance of students who wish to enter Medicine.

Candidates for admission shall furnish evidence that they have satisfied the matriculation requirements of the Licensing Body in the region where they wish to practise. This provision applies to Canadian candidates only.

EQUIVALENT STANDING

A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official Statement of his preliminary education and of the medical course he has followed and the standing he has obtained. This should be accompanied by a calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

The equivalent courses of study in schools accepted by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the accepted school, but the student may be required to pass such examinations, individual or comprehensive, as may be required by the Faculty.

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Secretary of the Faculty.

As the number of students in each class is limited, application should be made early and in any case not later than January 1st. Each application must be accompanied by a non-returnable fee of \$5.00 in the form of a cheque or money order payable to McGill University.

A fee of \$50.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee

will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Secretary of the Faculty, when possible, is advisable.

REGISTRATION

Students in the Faculty of Medicine will register at the Registrar's Office in Dawson Hall on Friday, September 1st or Tuesday, September 5th, 1961. Those who register late will be required to pay a late registration fee of \$5.00 if they register during the first week of the session and \$10.00 if they register during the second. The fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

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The University reserves the right to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions described in the General Information Pamphlet.

UNIVERSITY FEES

1. DOUBLE COURSE IN SCIENCE AND MEDICINE		
First and Second years. Third to Seventh years.		\$475.00 \$600.00
2. FOUR-YEAR COURSE IN MEDICINE	S poisson	\$000.00
Annual fee (including Students' Society and Medica Students' Journal fees)		\$600.00
Students in the Fourth year also pay for meals at the	dudent,	danii
Royal Victoria Montreal Maternity Hospital If paid in two instalments:		\$ 5.00
First year only—		
First instalment, on registration	\$300.00	
Instalment fee	2.50	
	202 50	
Less half deposit	302.50 25.00	\$277.50
	ecitip.co	A COLUMN
Second instalment, January 15th		\$277.50
Fourth year, each instalment.		\$302.50 \$305.00

- 3. REPEATING STUDENTS
 Students repeating a year pay full fees.

DATES OF PAYMENT

Fees are due and payable at the Chief Accountant's Office, Dawson Hall, between the hours of 9 a.m. and 4 p.m. on the following dates.

Friday, September 1st to Friday, September 8th, or, if desired, fees may be remitted by mail before the above dates. The second instalment of tuition fees is due and payable on January 15th. An additional \$2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the late payment fee.

Immediately after the prescribed dates for the payment of fees the Chief Accountant will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Dean will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

All fees are payable in Canadian currency.

For further information and for a list of special fees see the General Information Pamphlet included in this Announcement.

MICROSCOPES

Each student, on beginning his studies, is required to provide himself with a first-class microscope for laboratory and private study throughout his course. The microscope must be of substantial construction and be provided, as a minimum, with the following accessories: 2/3, 1/6, and 1/12 oil immersion objective, and a substage condenser. Such an instrument will last a lifetime and is an essential part of the equipment of a practitioner in medicine. Suitable microscopes may be secured through local dealers. The University does not rent microscopes to medical students.

BOARD AND RESIDENCE

For details of board and residence and an estimate of expenses, see the General Information Pamphlet included in this Announcement.

HEALTH SERVICE

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For details of the Health Service and Medical Examinations see the General Information Pamphlet included in this Announcement.

COURSES FOR THE DEGREE OF M.D., C.M.

The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including

- a. four years of medical study in the University leading to the degree of M.D., C.M.; and
- b. one year of interneship in an approved hospital,

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one year of further medical study in the Faculty of Medicine of McGill University or at another medical school approved by it.

While the Faculty Administration exercises a general supervision of arrangements for interneships, the Faculty of Medicine assumes no responsibility to provide an interneship for any student.

A certificate that his medical education is completed and that he is eligible to sit for the examination of a licensing board shall not be issued to any graduate until the University is in possession of satisfactory evidence that he has completed the full requirements.

There are four sessions of thirty-six weeks each exclusive of examination periods. The sessions usually begin the first Tuesday after the first Monday in September (Labour Day), and continue until the first week of June.

The academic session is divided into three terms of 12 weeks each in all sessions. The minimal period of study for the degree of M.D., C.M., is, therefore, four sessions of study comprising one hundred and forty-four weeks exclusive of examination periods.

The arrangement of the principal subjects of instruction is usually as follows:

FIRST SESSION

Anatomy (including Embryology), Histology, Physiology, Biochemistry, Child Development and Human Relations, Introduction to Medicine, General Pathology, History of Medicine.

SECOND SESSION

Central Nervous System (Anatomy, Neuroanatomy, Neurophysiology, Psychology), Medical Microbiology, Laboratory Diagnosis, Medicine, Surgery, Obstetrics, Health and Social Medicine, Pharmacology, Psychiatry, Special Pathology, Radiology, History of Medicine.

THIRD SESSION

Health and Social Medicine, Medicine, Surgery, Obstetrics and Gynaecology, Medical Jurisprudence, Neurology and Neurosurgery, Paediatrics, Psychiatry, Ophthalmology, Oto-laryngology, Radiology, Anaesthesia, Electives.

FOURTH SESSION

Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Paediatrics, Ophthalmology, Oto-laryngology, Radiology, Therapeutics.

EXAMINATIONS

The examinations taken within the Medical Faculty are divided into two groups, namely major examinations and minor examinations. Major examinations are the final examinations in Anatomy (Embryology), Histology, Physiology, Biochemistry, Pharmacology, Medical Microbiology, Special Pathology, Public Health and Preventive Medicine (Third year), Paediatrics, Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Central Nervous System.

The examinations in Medicine, Surgery, Obstetrics and Gynaecology, and Psychiatry at the conclusion of the Third Session are ranked as major examinations, even though they are not the final examinations in these subjects.

Minor examinations include the final examinations in General Pathology, Laboratory Diagnosis and examinations preliminary to the final major examinations.

A student who fails in any major examination will be required, before he sits a supplemental examination, to present to the Dean's office from the senior professor of the Department concerned a certificate that the student has taken sufficient extra tuition as would indicate that he has reviewed the subject and is a suitable candidate for the supplemental examination.

There is a strict difference between the importance of a major and a minor examination. If a student fails in the supplemental of a major examination, there are definite restrictions as hereinafter set forth, while failure in the supplemental of a minor examination permits the student to carry conditions as are hereinafter laid down.

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A student who fails in the supplementals of not more than two minor examinations may proceed with other subjects in the following year, carrying such subjects as conditions, but may not sit any subsequent major examinations until the conditions have been removed, nor may more than two conditions be carried at one time.

All conditions must be removed by the end of the first term (November) in each session when additional supplemental examinations will be held. Failure in any of these will require the student to revert to the previous year and to repeat the courses of the Winter and Spring terms.

A student who fails in the supplementals of three or more minor examinations in any one session must repeat this session or may be asked to retire, as may be decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it be decided that he should retire.

A failure in the supplemental of a major examination will require the student to repeat the course (repeat the year), and no student may repeat such a course more than once. Any student who fails in the supplementals of two major examinations in any one year shall be required to retire without the privilege of further supplementals.

A student is not allowed supplementals in three major examinations in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student is not allowed supplementals in two major and one minor examination in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it be decided that he should retire.

A student in the final year may take a supplemental examination in one subject only at the end of the following September, but must present a certificate from the senior professor of the Department concerned that he has taken at least three months' extra tuition in this subject in one of the teaching hospitals of the McGill Faculty of Medicine. If he should fail in this supplemental examination, he must repeat the year of study and pass all the major examinations at the completion of the session.

A student in the final year who fails in two subjects will not be permitted supplementals but must repeat the year or retire, as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student will not be allowed to repeat a year more than once nor may he repeat a subsequent year if such repetition has been due to failure in examinations, except on special recommendation of the Promotion Committee, acting upon the motion of the representatives on the committee of the Department concerned.

A student who has been permitted to repeat his year shall be required to make a C+grade, which for this purpose is considered to be 65%, or he will not be permitted to continue his course.

Examinations, tests, reviews, etc. will ordinarily be held during the session only at the end of the twelve week terms. If is understood that such examinations, tests or reviews are conducted for the benefit of the student in order that he may have experience in the requirements of the sessional examinations, and further, that he and his teachers may know he is progressing in his studies. In the Fourth year final examinations will be held at the end of each rotation.

There shall be two Promotion Committees. The First Committee shall consist of representatives of the subjects of Anatomy, Biochemistry, Histology, Physiology, Pharmacology, Medical Microbiology and Pathology, appointed by the Dean, and the Dean and the Secretary ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the First and Second years. The second Committee shall consist of representatives of the Departments of Health and Social Medicine, Medicine, Surgery, Obstetrics and Gynaecology, Paediatrics, and Psychiatry appointed by the Dean, and the Dean and the Secretary ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the Third and Fourth years.

All results of examinations will be given out by the Dean's office, after they have been passed upon by the Promotion Committee. It is an absolute rule that no examination results shall be communicated by any other channel.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent. There can be no appeal from this decision.

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At the conclusion of each course, students are graded in five groups as follows:

A = Excellent

B = Good

C = Fair

D = Doubtful

E = Failure

In reporting the grading, the names of those students who attain "A" standing are arranged in order of merit; in all other grades the arrangement is alphabetical.

By regulation of the Faculty of Medicine, a student is not permitted more than one "D" grade in the examinations of a single year. In the presence of other "D" or "E" grades all "D" grades are automatically converted into failures by the Promotion Committees.

The grade assigned to a student is based upon the results of the Final Examination, but the instructor also takes into account the record of the work done throughout the course.

The quality of the English used by a candidate is taken into account in determining his standing in all examinations.

REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

- 1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.
 - 2. He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than nine months each in this University or in some other university, college or school of Medicine, approved by this University. (See page 1607.)
 - 3. No one is permitted to become a candidate for the degree who has not attended at least two full sessions at this University.
 - 4. Every candidate for the degree must have passed all of the required examinations in the subjects comprising the Medical course.
- 5. He must have attended the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University and the practice of the Montreal Children's Hospital; and must have acted as clinical clerk in Medicine, Surgery, Paediatrics and Psychiatry and have fully reported upon the prescribed number of cases.

- 6. He must also have attended the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.
- 7. Every candidate must also have administered anaesthetics, under direction, at least six times, and have assisted at not less than six autopsies.

REQUIREMENTS FOR LICENCE

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each one of the United States the right of licensing is vested in a Licensing Body which has its special laws and requirements; in many cases a special standard of general education is insisted upon before beginning the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained.

N.B —In order that disappointment and loss of time may be avoided, the University requires Canadian students to register with the licensing body of their home province before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:

QUEBEC—Dr. J. Paquin, 1896 Dorchester St. West, Montreal 25, P.Q. Ontario—Dr. H. McPhedran, 174 St. George St., Toronto 5, Ont.

NEW BRUNSWICK-Dr. J. M. Barry, 182 Princess St., Saint John, N.B.

Nova Scotia—Dr. M. R. Macdonald, Victoria General Hospital, Halifax, N.S.

PRINCE EDWARD ISLAND—Dr. R. G. Lea, 170 Fitzroy St., Charlottetown, P.E.I.

Manitoba—Dr. M. T. Macfarland, 605 Medical Arts Building, Winnipeg, Man.

Alberta—Dr. W. Bramley-Moore, 207 Alexandra Block, Edmonton, Alta.

Saskatchewan—Dr. G. N. Peacock, 415 Birks Bldg., Saskatoon, Sask.
British Columbia—Dr. Lynn Gunn, 1807 West 10th Avenue,
Vancouver 9, B.C.

Newfoundland-Dr. C. Macpherson, P.O. Box 5121, St. John's, Nfld.

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In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, 77 Metcalfe Street, Ottawa 4, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance at lectures, practical work, and clinics are also accepted by the various examining boards in Great Britain.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

Courses of Instruction

DEPARTMENT OF ANAESTHESIA

Associate Professor R. G. B. GILBERT, Chairman

Wellcome Research Professor

J. G. ROBSON

Assistant Professors

P. R. BROMAGE
W. G. CULLEN
H. T. DAVENPORT
GLADYS ELLISON
R. S. FERGUSON
R. A. MILLAR
A. B. NOBLE
D. J. POWER

Lecturers

G. F. BRINDLE J. J. KELLY P. O'SHAUGHNESSY J. B. SUTHERLAND

Demonstrators

N. W. B. CRAYTHORNE
J. D. A. FIRTH
DEIRDRE GILLIES
E. W. LARKING
A. W. MACDONALD
D. J. L. MACWATT
A. N. MUNGALL
ANNE RICHARDSON
F. A. ROBILLARD
J. K. ROSALES
A. C. SHERIDAN
F. R. H. WRIGLEY

UNDERGRADUATE COURSES

A student in Medicine, before reaching that part of the curriculum which deals with anaesthesia, will have acquired during the earlier years at the University some incomplete, but important knowledge of anaesthesia while taking courses in anatomy, physiology, biochemistry, pharmacology and pathology.

In the Third year he attends twelve lectures, illustrated by sound films, given by the chairman of the Department. The student is given advice on what to read. An examination may follow the termination of this session.

In the Fourth year a period of one week is spent in the operating room. The student is assigned to an anaesthetist each morning from 8-12 while in the afternoon from 1.30 - 2.30 he attends a didactic session concerning the procedures he has witnessed.

Also in this year the one month "Period of Election" may voluntarily be spent in the Department of Anaesthesia of one of the University hospitals. This presents opportunity for additional supervised clinical work in the operating room, the recovery room and the intensive care unit.

Textbook: R. D. Dripps et al. Introduction to Anesthesia (Saunders, 1957).

DEPARTMENT OF ANATOMY

Professors	C. P. LEBLOND, Chairman
	J. Langman C. P. Martin
Associate Professors	S. M. Banfill Y. Clermont
Assistant Professor	N. J. NADLER
Lecturers	E. W. Workman L. Heller
Hon. Lecturer	G. F. Brindle
Research Associate	M. Enesco
Teaching Fellow	D. Puddy

REQUIRED COURSES

1. GROSS ANATOMY

First year: Six hours per week during the Autumn term and nine hours per week during the Winter and Spring terms. Dissection and lectures cover the gross anatomy of the body except the Head, Neck and Brain. The course includes Embryology and Surface and Radiological Anatomy.

Second year: Nine hours per week during the Autumn term. Dissection and lectures on the Head, Neck and Brain. This course is followed by 2. Introduction to the Central Nervous System, listed below, and a combined examination is held at the end of the year.

2. INTRODUCTION TO THE CENTRAL NERVOUS SYSTEM

Six hours lecture and laboratory per week during the second term of the Second year and two hours lectures per week during the third term. Conducted with the co-operation of the Departments of Neurology and Neurosurgery, Physiology and Psychology. This course is listed under the Department of Neurology and Neurosurgery as 2A.

3. APPLIED ANATOMY

One hour per week lecture during the Autumn, Winter and Spring terms (Designed for graduate students and candidates for the Diploma in Surgery).

Textbooks: T. B. Johnston and D. V. Davies, Gray's Anatomy, 32nd ed. (Longmans 1954) or J. C. Brash, Cunningham's Text-Book of Anatomy 9th ed. (Oxford 1951).

Practical Manual: J. T. Aitken et al., A Manual of Human Anatomy, 5 vols. (Livingstone 1956).

Surface Anatomy: A. B. Appleton et al., Surface and Radiological Anatomy, 3rd ed. (Heffer 1949).

Optional Texts: J. E. Frazer, Anatomy of the Human Skeleton by A. S. Breadnach, 5th ed. (Churchill 1958); J. C. B. Grant, An Atlas of Anatomy, 4th ed. (Williams and Wilkins 1956); J. C. B. Grant, A Method of Anatomy, 6th ed. (Williams and Wilkins, 1958); E. B. Jamieson, Illustrations of Regional Anatomy, 7th ed. 7 vols. (Livingstone 1947); T. B. Johnston, A Synopsis of Regional Anatomy, 8th ed. (Churchill 1957); A. Lee McGregor, Synopsis of Surgical Anatomy, 8th ed. (Wright, 1957); S. W. Ranson and S. L. Clark, Anatomy of the Nervous System, 10th ed. (Saunders 1959).

INTRODUCTION TO MEDICINE

One hour per week from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry and Physiology, in rotation.

ELECTIVE COURSES

The Department provides, as far as material will permit, facilities for advanced work or revision. The Chairman of the Department should be consulted by anyone wishing to undertake work of this nature.

4. ADVANCED NEURO-ANATOMY

Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton. The class is limited to ten. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.

MICROSCOPIC ANATOMY

REQUIRED COURSE

6. HISTOLOGY

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The study of the histological structure of the body. Two or three hours lectures and six or nine hours laboratory work per week during the first two terms of the first medical year.

Textbooks: A. W. Ham, Histology, 3rd ed. (Lippincott 1957); A. A. Maximow and W. Bloom, A Textbook of Histology, 7th ed. (Saunders 1957); Bailey's Textbook of Histology, 14th ed., by W. M. Copenhaven and D. D. Johnson (Williams and Wilkins, 1958).

Additional Reading: J. C. Finerty and E. V. Cowdry, A Textbook of Histology, 5th ed. (Lea and Febiger 1960); E. D. P. DeRobertis, W. W. Nowinski and F. A. Saenz, General Cytology, 3rd ed. (Saunders 1960); R. O. Greep, Histology (Blakiston 1954).

ELECTIVE COURSE

7. EXPERIMENTAL MORPHOLOGY

- (a) A seminar on biological problems-1 hour per week.
- (b) A practical course on the planning of biological experiments, laboratory animal management and operations, histological and histometrical techniques, tracing methods (Radioisotope measurement by Geiger counter and localization in tissue section by radioautography), microphotography, statistical methods for assessing data, etc. One hour lecture and 2 hours laboratory per week.

EMBRYOLOGY

REQUIRED COURSE

8. THE STUDY OF HUMAN DEVELOPMENTAL ANATOMY

This course is integrated with 1. Gross Anatomy. Lectures and demonstrations of live material and models are distributed over the First year and the first term of the Second year. Topics emphasized are: early stages of development; the cardio-vascular, respiratory, gastro-intestinal, urogenital and nervous system; and the fetal membranes.

Textbooks: L. B. Arey, Developmental Anatomy, 6th ed. (Saunders 1954); W. J. Hamilton et al., Human Embryology, 2nd ed. (Heffer 1952); Section on Embryology in Cunningham's Textbook of Anatomy; Section of Embryology in Gray's Anatomy.

DEPARTMENT OF BACTERIOLOGY AND IMMUNOLOGY

Professor	R. W. REED, Chairman
Associate Professors	G. G. KALZ J. W. STEVENSON
Assistant Professors	
Lecturers	P. E. Cooke M. Franklin L. Kapica F. Mankiewicz
Demonstrators	A. S. A. Hubbard S. Juhasz G. D. Micklea
Teaching Fellow	E. L. MEDZON

All lectures and laboratory courses are given in the Department of Bacteriology, Pathological Institute.

20. MEDICAL MICROBIOLOGY

This course deals with the general principles of medical microbiology and immunology. The lectures are concerned with the anatomy and physiology of bacteria, theories of infection and immunity and a systematic study of the pathogenic bacteria, viruses and rickettsiae. The animal parasites of man (protozoa, helminths and anthropods) are considered with special emphasis on those found in North America. Laboratory work provides experience in the cultivation, isolation and identification of microorganisms and an opportunity to observe their physiological and immunological properties.

Lectures and laboratory work during the first two trimesters of the Second year.

Textbooks: Wm. Burrows, Textbook of Microbiology, 17th ed. (Saunders 1959); Ernest Jawetz et al., Review of Medical Microbiology, 4th ed. (Lange 1960); D. T. Smith and N. F. Conant, Zinsser's Bacteriology, 11th ed. (Appleton 1957); T. W. M. Cameron, The Parasites of Man in Temperate Climates, 2nd ed. (Univ. of Toronto Press, 1946).

References: R. J. Dubos, Bacterial and Mycotic Infections of Man, 3rd ed. (Lippincott 1958); Sidney Raffel, Immunity (Appleton 1953); A. J. Rhodes and C. E. Van Rooyen, Textbook of Virology, 3rd ed. (Williams and Wilkins 1985); T. M. Rivers and F. L. Horsfall, Viral and Rickettsial Infections of Man, 3rd ed. (Lippincott 1958).

- 32. SYSTEMATIC BACTERIOLOGY
- 33b. VIRUSES AND RICKETTSIAE
- 45. ADVANCED IMMUNOLOGY
- 46b. UNDERGRADUATE SEMINAR

OTHER COURSES

The Department offers facilities for undergradute and graduate training. See the announcements of the Faculty of Arts and Science and of the Faculty of Graduate Studies and Research.

DEPARTMENT OF BIOCHEMISTRY

Professors

K. A. C. Elliott, Chairman

O. F. DENSTEDT J. H. QUASTEL D. L. THOMSON

Associate Professors

M. SAFFRAN P. G. SCHOLEFIELD

S. SOLOMON

Assistant Professors

ESAU HOSEIN ROSE M. JOHNSTONE D. RUBINSTEIN

C. C. SOLOMONS

FIRST YEAR

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BIOCHEMISTRY-PHYSIOLOGY 1. Mon. to Fri., at 9 a.m.

BIOCHEMISTRY-PHYSIOLOGY 1L.

Laboratory: six hours a week.

Professor Rubinstein and Staff

BIOCHEMISTRY-PHYSIOLOGY 1D. Demonstrations and tutorials.

1 hour per week.

This is an integrated course of lectures, tutorials, demonstrations and laboratory work given jointly by the two departments.

INTRODUCTION TO MEDICINE

One hour per week from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry, and Physiology, in rotation.

THIRD YEAR ELECTIVE

3E. RESEARCH IN BIOCHEMISTRY AND PHYSIOLOGY. A limited number of students may take Biochemistry or Physiology as their elective subject in the Third year. These students will be given the opportunity to participate in departmental research projects.

OPTIONAL ADDITIONAL COURSES

For students who are interested in additional studies in Biochemistry the following courses are recommended:

45. METABOLISM. The nature of biological oxidations and reductions and the enzymes concerned therewith, especially from the point of view of transfer of energy; the intermediary metabolism of organic foodstuff, the hormonal control of metabolism.

First term: 2 hours Second term: 3 hours

Staff

51-52. SPECIALTIES AND RECENT ADVANCES IN BIOCHEMISTRY. In this course groups of lectures will outline special fields of Biochemistry in which advances have been rapid. The content of the course will change from year to year.

One hour.

Staff

This course is open only to students who have previously taken advanced courses in Biochemistry.

DEPARTMENT OF HEALTH AND SOCIAL MEDICINE

Strathcona Professor
Associate Professors

R. P. VIVIAN, Chairman
D. S. FLEMING
C. W. MACMILLAN
MARGARET E. NIX
MARIAN BAIN

Assistant Professor

Lecturers

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D. BEWS H. E. Burke F. M. Jones MILTON G. TOWNSEND FREDERICK WIENER

Demonstrators Edith M. Mankiewicz M. A. HICKEY

The Department provides three courses for undergraduates in the Faculty of Medicine-Public Health and Preventive Medicine, Medical Ethics and Jurisprudence, and Medical Statistics.

The course in Medical Statistics is given in the autumn term of the First year and consists of 12 one hour lectures. The course deals with statistical methods and techniques most frequently used in medical work.

The course in Public Health and Preventive Medicine is begun in the autumn term of the Second year and contains, for each student, 24 lectures of 1 hour each and 9 demonstrations or field trips of 21/2 hours each, a total time of 461/2 hours.

The lectures deal with Epidemiology as a medical science and with the application of epidemiological principles to the study of disease causation and behaviour. Special emphasis is placed upon the influence of the environment upon health. Nutrition is also dealt with as a problem of ecology. Vital Statistics deals with census and estimated populations, registration, definition and computation of rates.

Industrial Toxicology. Four lectures on (a) dusts, fumes, smokes, mists, fogs and vapours (b) metal fume fever (c) arsenic, lead and mercury (d) (d) carbon monoxide (e) organic compounds-aliphatic and aromatic hydrocarbons-halogenated, nitro, and amino derivatives (f) organic solvents (g) factors influencing selection of employees (h) early diagnosis of industrial poisoning.

Field trips and demonstrations pertinent to the lecture material are arranged which include visits to a water plant, a provincial laboratory, the Institute of Microbiology and the Royal Edward Laurentian Hospital; and discussion periods on Public Health Practice and Vital Statistics.

A minor examination is held at the end of the Second year.

The second part of the course in Public Health and Preventive Medicine is given in the Third year. This part contains 12 lectures given to the class as a whole at weekly intervals during the autumn term and 12 afternoon sessions of 21/2 hours each, in each of the three week concentration periods provided in the curriculum. The total time for each student in the Third year is 42 hours.

The lectures present the epidemiological approach to the control of communicable diseases and the prevention of degenerative diseases and other disabilities. They are designed to introduce the work of the concentration periods as well as to deal with entities for which no concentration period is provided.

The concentration periods are designed to provide an outline of the organization and activities of public health services in Canada and the operation of local or municipal public health programs, together with didactic material on the etiology, epidemiology and control of specific infectious diseases with demonstration and practice in the use of immunizing agents. The concentration periods also contain the presentation of didactic material on health supervision policies for particular groups in the community with demonstration and discussion.

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A final examination is held at the end of the Third year.

Text and Reference Books: M. J. Rosenau, Preventive Medicine and Public Health, ed. by K. F. Maxcy, 8th ed. (Appleton 1956); H. S. Mustard and E. L. Stebbins, Introduction to Public Health, 4th ed. (Macmillan, New York, 1959); H. R. Leavell and E. G. Clark, Preventive Medicine for the Doctor in his Community, 2nd ed. (McGraw-Hill 1958).

MEDICAL ETHICS AND JURISPRUDENCE

The course in Medical Ethics and Jurisprudence consists of some 12 lectures, given to the class as a whole, in the spring term of the Second year.

Twelve lectures on (a) legal status of physicians (b) obligation of the doctor to the state (c) professional secrecy—privileged communications (d) responsibility to the patient—implied and expressed contracts (e) physical examinations, surgical operations and consent (f) malpractice—civil, criminal (g) legal procedures—coroner's court, other courts, medical witness (h) medico-legal aspects of death (i) personal identity in its medico-legal bearing (j) blood stains (k) wounds (l) pregnancy (m) abortion (n) infanticide (o) impotency and sterility (p) rape (q) medico-legal aspects of alcoholic intoxication (r) insanity.

Texts and Reference Books: i. General: R. J. M. Buchanan, Textbook of Forensic Medicine and Toxicology, 9th ed. (Livingstone 1925); John Glaister, Medical Jurisprudence and Toxicology, 9th ed. (Williams and Wilkins 1953); T. A. Gonzales et al., Legal Medicine, 2nd ed. (Appleton 1954); D. J. A. Kerr, Forensic Medicine, 5th ed. (Black 1954); H. H. Littlejohn, Forensic Medicine (Churchill 1925); R. H. Long, The Physician and the Law, 2nd ed. (Appleton 1959); W. D. McNally, Toxicology,

Chic., (Indus. Medicine 1937); Sydney Smith and F. S. Fiddes, Forensic Medicine, 10th ed. (Churchill 1955); Sydney Smith and John Glaister, Recent Advances in Forensic Medicine, 2nd ed. (Churchill 1939); A. S. Taylor, Principles and Practice of Medical Jurisprudence, ed. by Sydney Smith, 11th ed., 2 vols. (Churchill 1956-57).

ii. Industrial Toxicology: Ethel Browning, Toxicity of Industrial Organic Solvents, 2nd ed. (H.M.S.O. 1953) (G.B. Med. Res. Counc. Indus. Health Res. Bd. Rept. no. 80); Yandell Henderson and H. W. Haggard, Noxious gases, 2nd ed. (Reinhold 1953); Donald Hunter Industrial Toxicology (Oxford 1944).

HISTORY OF MEDICINE

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Professor

LLOYD G. STEVENSON

REQUIRED COURSES

1. INTRODUCTORY COURSE (First year)

A series of 12 lectures given during the first month of the medical course to provide an historical orientation to the student entering upon the study of medicine.

2. HISTORY OF MEDICINE (Second year).

A series of 12 lectures providing a survey of the history of relationships between medicine and general culture, with reference to economics, politics, philosophy and religion.

DEPARTMENT OF INVESTIGATIVE MEDICINE

Professor J. S. L. Browne, Chairman

Assistant Professors

C. J.-P. Giroud
N. Kalant
Research Associate
S. Solomon

Lecturers

IVAN BECK
C. I. CHAPPEL
M. M. GOLD
R. SCHUCHER

R. Wolfe
The Department offers courses leading to the degrees of M.Sc. and Ph.D.
in the Faculty of Graduate Studies and Research and provides research
facilities for these students or for other persons proceeding to graduate

degrees, diplomas or for other qualified individuals. The Department is also prepared to make arrangements to offer elective courses for Medical undergraduate students.

The courses and the direction of research in this department are given in close collaboration with the Department of Experimental Medicine and members of either department give lectures and direct the research of graduate students registered in the other.

Students may work either in the Medical Building or in one of a number of hospitals depending on the type of work done (clinical or laboratory) or upon the individual directing the research. Part of the function of the department is the correlation of clinical investigation being done at various hospitals.

Students holding either the M.D. or B.Sc. degree or its equivalent may enter the department provided that their standing is acceptable. For the list of courses and further details see the Calendar of the Faculty of Graduate Studies and Research.

DEPARTMENT OF MEDICINE

Professors	Ronald V. Christie, Chairman D. G. Cameron
Associate Professors:	
D. V. BATES	M.M. HOFFMAN
J. C. BECK	J. G. HOWLETT
E. H. BENSLEY	A. L. Johnson
G. A. COPPING	Louis Lowenstein
NEIL FEENEY	M. McGregor
R. R. Forsey	H. S. MITCHELL
C. W. FULLERTON	BRAM ROSE
G. W. HALPENNY	S. R. TOWNSEND
W. H. P. HILL	
Assistant Professors:	
J. L. Adams	LESTER McCallum
R. C. Bennetts	E. E. McGarry
F. M. BOURNE	R. D. McKenna
H. E. Burke	K. R. MACKENZIE
G. E. CRAIG	R. O. Morgen
A. F. FOWLER	C. J. PATTEE
L. G. Johnson	E. A. S. REID

F. F	KALZ
J. F	. MEAKINS
I. G	. MILNE
F. N	M. SMITH

P. B. STEWART
A. T. THOM
B. D. USHER

Lecturers:

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M. Aronovitch
C. M. BALLEM
C. S. BARKER
R. G. BAXTER
J. O. W. BRABANDER
J. L. BRANDT
S. Brown
LAUDER BRUNTON
LLOYD CASWELL
R. A. CLEGHORN
WILLIAM COHEN
P. A. EDWARDS
A. GOLD
ALEC GORDON
R. G. M. HARBERT
C. H. HOLLENBERG
A. W. LAPIN
W. LEITH
B. A. LEVITAN
10 July 10 10

A. D. MACDONALD C. C. MACDONALD D. J. MACINTOSH M. McKenzie J. R. MARTIN A. MILLER M. NOTKIN J. A. P. PARÉ R. E. G. PLACE J. S. Polson T. L. QUINTIN LORNE SHAPIRO K. A. Sowden MURRAY STALKER E. A. TURCOT P. G. WEIL G. E. WIGHT D. H. WOODHOUSE

Demonstrators:

J. R. ALBERT
Eva Arendt
A. Aronoff
DAVID BARZA
I. T. BECK
T. A. Brown
PARKER CHESNEY
M. S. COHEN
B. A. COOPER
S. R. COOPER
R. F. P. CRONYN
J. H. DARRAGH

L. J. Korenberg
L. Kovacs
W. A. R. Laing
W. K. Macdonald
D. G. Mackay
Melvin McQuitty
D. M. Marcus
Bernard Pollak
S. L. Richardson
Jack H. Rubin
P. Schopflocher
J. A. Shanks

N. M. K. DELEEUW	A. SHULMAN
S. EIDINGER	P. Sommerfreund
C. M. FLINT	C. H. STACEY
P. A. FLINT	R. L. STANFORD
S. O. FREEDMAN	K. R. Stewart
T. R. HALE	DAVID STUBINGTON
J. L. HUTCHISON	T. J. SULLIVAN
G. E. JORON	P. P. TELNER
M. KAYE	J. Wener
D. G. KINNEAR	J. C. G. Young

EXPERIMENTAL MEDICINE

A. KNIGHT

Professor	ELEANOR H. VENNING
Associate Professor	SAMUEL SOLOMON
Assistant Professors	Margaret R. Becklake
	RONALD HOBKIRK
	MAXWELL RICHTER
	DAVID RUBINSTEIN

N.B. See Announcement of the Faculty of Graduate Studies and Research.

THE CURRICULUM IN THE DEPARTMENT OF MEDICINE

The object of the following courses is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease, to afford a knowledge of the technique, and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students, teachers, and patients throughtout the final years is of prime importance.

The close correlation of physiology, anatomy, and biochemistry with clinical medicine is emphasized—not only in the pre-clinical years, but later in hospital and laboratory—thus affording students a modern scientific medical training. The importance of regarding the patient as a person is emphasized throughout.

Unusual facilities are afforded at the Royal Victoria Hospital and at the Montreal General Hospital where there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

REQUIRED COURSES

SECOND YEAR

COURSE II 1—INTEGRATION OF PHYSIOLOGY, BIOCHEMISTRY AND ANATOMY WITH MEDICINE

Time-Last term of Second year: three lectures a week.

Place-Medical Building.

Subject Material—This course covers in a systematic manner the deviations from the normal of the physiological and biochemical functions. These are correlated so as to explain symptoms and signs which may be found on physical examination as detected by clinical methods dealt with in Course II 2. This course is so interpreted as to give the student a panoramic view of these disturbances with a proper perspective.

COURSE II 2-A PRACTICAL COURSE IN CLINICAL METHODS

Time-Third term of Second year.

Place—Outpatient Departments of the Royal Victoria, Montreal General, and Queen Mary Veterans Hospitals.

Subject—Practical instruction 6 hours a week on Normal and Abnormal Physical Signs.

COURSE II 3—LABORATORY DIAGNOSIS

Time-Last term of Second year.

Place-Medical Building.

Subject—Instruction and practice 2 periods a week in microscopy as applied to clinical medicine.

Dr. Lauder Brunton and Assistants

THIRD YEAR

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COURSE III 4—CASE REPORTING

During the trimester in Medicine students will be assigned patients in the wards. They will be required to write case histories, make a general examination, note progress, and do such laboratory investigations as are within their scope and have access to all other Laboratory and X-Ray findings. Teaching Fellows will be available to assist students

in this work. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

COURSE III 5—CLINICO-PATHOLOGICAL CONFERENCE

Time-Weekly during the medical term.

Place-The Royal Victoria and the Montreal General Hospitals.

COURSE III 6—Integration of Physiology, Biochemistry and Anatomy with Medicine—a continuation of course II. One lecture a week for 2 terms, two lectures a week for the third term.

COURSE III 7—THERAPEUTICS

A course of 20 lectures on the principles of therapeutics and on the treatment of various diseases for which clinical material is not readily available.

FOURTH YEAR

COURSE IV 8—CASE REPORTING

An effort is made to enable the student in the Fourth year to take an active part in the care of the patient, both in the wards and in the Out-door Clinics. One month will be spent on the wards and one month in the "Comprehensive Clinic" of the outpatient department. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

COURSE IV 9—CLINICAL PATHOLOGICAL CONFERENCE

Time-Once a week during the medical term.

Place-The Royal Victoria and the Montreal General Hospitals.

TEXT AND REFERENCE BOOKS

The following books have been classified under general headings and are merely suggestions from which the student may choose according to his own needs. The list is not intended to be exclusive; there are other text books which the student may prefer. The list of reference books is given for information.

Clinical and Laboratory Methods and Physical Diagnosis: R. C. Cabot and F. D. Adams, Physical Diagnosis, 13th ed. (Wood 1942); R.. B. H. Gradwohl, Clinical Laboratory Methods and Diagnosis, 5th ed. 2 vols.

(Mosby 1956); T. H. Ham, ed., A Syllabus of Laboratory Examination in Clinical Diagnosis (Harvard Univ. Pr. 1952); Hutchison's Clinical Methods by Donald Hunter and R. R. Bomford, 13th ed. (Cassell 1956); S. S. Leopold, The Principles and Methods of Physical Diagnosis, 2nd ed. (Saunders 1957); McGill University, Dept. of Medicine, Guide to Medical Case Reporting, 3rd ed., 1950; R. H. Major and M. H. Delp, Physical Diagnosis, 5th ed. (Saunders 1956); J. C. Todd et al., Clinical Diagnosis by Laboratory Methods, 12th ed. (Saunders 1953); Harry Walker, Physical Diagnosis (Mosby 1952).

Physio-Pathology: C. H. Best and N. B. Taylor, The Physiological Basis of Medical Practice, 6th ed. (Williams and Wilkins 1955); Meyer Bodansky and Oscar Bodansky, Biochemistry of Disease, 2nd ed. N.Y. (Macmillan 1952); Abraham Cantarow and Max. Trumper, Clinical Biochemistry, 5th ed. (Saunders 1955); C. H. Gray, Clinical Chemical Pathology (Williams and Wilkins 1953); J. P. Peters and D. D. Van Slyke, Quantitative Clinical Chemistry, vol. 1: Interpretations, 2nd ed. (Williams and Wilkins 1946); W. A. Sodeman, Pathologic Physiology, 2nd ed. (Saunders 1956); Samson Wright, Applied Physiology, 9th ed. (Oxford 1952).

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General Medicine: R. L. Cecil and R. F. Loeb, Textbook of Medicine, 10th ed. (Saunders 1959); J. J. Conybeare and W. N. Mann, Textbook of Medicine, 12th ed. (Livingstone 1957); L. S. P. Davidson, Principles and Practice of Medicine; 4th ed. (Livingstone 1958); T. R. Harrison, Principles of Internal Medicine, 3rd ed. (Blakiston, 1958); J. C. Meakins, Practice of Medicine, 6th ed. (Mosby 1956); W. M. Yater, Fundamentals of Internal Medicine, 4th ed. (Appleton 1954).

Differential Diagnosis: W. M. Barton and W. M. Yater, Symptom Diagnosis, 4th ed. (Appleton 1942); T. D. Savill, System of Clinical Medicine, 12th ed. (Williams and Wilkins 1944).

Dermatology: R. W. MacKenna, Diseases of the Skin by R. M. B. MacKenna, 5th ed. (Bailliere 1952); Norman Tobias, Essentials of Dermatology, 5th ed. (Lippincott 1956); Norman Walker and G. H. Percival, Introduction to Dermatology, 12th ed. (Livingstone 1956).

Miscellaneous Reference Books: G. G. Duncan, Diseases of Metabolism, 4th ed. (Saunders, 1959); C. K. Friedberg, Diseases of the Heart, 2nd ed. (Saunders 1956); E. P. Joslin, Diabetic Manual for the Doctor and Patient, 10th ed. (Lea and Febiger 1959); J. S. McLester and W. J. Darby, Nutrition and Diet in Health and Disease, 7th ed. (Saunders 1958); O. S. Ormsby and Hamilton Montgomery, Diseases of the Skin, 8th ed. (Lea and Febiger 1954); E. H. Rubin, Diseases of the Chest (Saunders 1947); Samuel Soskin, Progress in Clinical Endocrinology

(Grune 1950); R. L. Sutton and R. L. Sutton, Diseases of the Skin, 11th ed. (Mosby 1956); H. B. Taussig, Congenital Malformations of the Heart (Oxford 1948); L. E. H. Whitby and C. J. C. Britton, Disorders of the Blood, 8th ed. (Churchill, 1957); M. M. Wintrobe, Clinical Hematology, 4th ed. (Lea and Febiger 1956).

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

Chairman and Professor of Neurology
and Neurosurgery
Professor of Neurology
Professor of Neurosurgery
Professor of Experimental Neurology
Professor (Biochemistry) and Director Donner
Laboratory of Neurochemistry
Associate Professor of Neurology
Associate Professor of Neurological Radiology
Assistant Professors of Neurology

Assistant Professor of Neuropathology Assistant Professors of Neurosurgery

Assistant Professor of Experimental Neurology Assistant Professor of Neurochemistry Assistant Professor of Clinical Psychology Lecturers in Neurology

Lecturers in Neurosurgery

Lecturer in Experimental Neurology Demonstrators in Neurology

Demonstrators in Neurosurgery

Demonstrator in Electroencephalography

THEODORE RASMUSSEN
FRANCIS McNaughton
WILLIAM FEINDEL
HERBERT JASPER

K. A. C. ELLIOTT PRESTON ROBB ARTHUR ELVIDGE DONALD MCRAE I. B. R. Cosgrove D. L. LLOYD-SMITH REUBEN RABINOVITCH W. F. T. TATLOW GORDON MATHIESON -HAROLD ELLIOTT GILLES BERTRAND PIERRE GLOOR LEONHARD WOLFE BRENDA MILNER BERNARD GRAHAM IRVING HELLER D. E. HOWELL JOHN BLUNDELL CHARLES BRANCH HANNA PAPPIUS J. C. JACOB ISRAEL LIBMAN ALLAN MORTON SUSAN WOODCOCK JESSE BARBER

> PHANOR PEROT HUGH SAMSON

LEWIS HENDERSON

Fellows of the Montreal Neurological Institute:

FREDERICK ANDERMANN
JESSE BARBER
BARTOLOMO BARONE
DIWAN BHATHAL
FERNAND BILODEAU
BARUCH BLOOM
RICHARD BROWN
STIRLING CARPENTER
GUIDO CASTORINA
FLOYD COOPER
VIJAY DAVE
GARTH EMBREE
HENRY GARRETSON
RAYMOND GIGUÈRE
RAYMOND GROSSMAN
MANOUCHER GUERAMY
DES RAJ GULATI
JAN GYBELS
J. C. JACOB
KENNETH KAPPHAHN

GEORGE KARPATI DOREEN KIMURA ISRAEL LIBMAN RICHARD LOVELL J. A. LOWDEN FALAH MAROUN MORIO MATSUNAGA HUNTINGTON MAYOR ROSARIO MUSELLA JEWELL OSTERHOLM PHANOR PEROT FOSTER REDDING YAVUZ RENDA RICHARD ROVIT HUGH SAMSON JEAN SIEGFRIED COSTAS STEFANIS CRISTIAN VERA SUSAN WOODCOCK

SECOND YEAR

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2A INTRODUCTION TO THE CENTRAL NERVOUS SYSTEM. Combined course given by the Departments of Anatomy, Neurology and Neurosurgery, Physiology and Psychology. Two hours lecture, three hours laboratory and one hour demonstration per week, during the second term and two hours lecture per week during the third term.

Professors McNaughton, Jasper, Burns and Hebb

- 2B INSTRUCTION IN CLINICAL EXAMINATION OF THE NERVOUS SYSTEM. Given in conjunction with the Department of Medicine in the third term.
- 2C NEUROPATHOLOGY. Given in conjunction with the Department of Pathology in the third term.

 Professor Mathieson
- 2D APPLIED PHYSIOLOGY (Department of Medicine). Six lectures.

Professors Rasmussen, McNaughton and Staff

THIRD YEAR

3A CLERKSHIP IN NEUROLOGY AND NEUROSURGERY. Four afternoons per week for three weeks, at the Montreal Neurological Institute.

Professors Rasmussen, McNaughton and Staff

- 3B SURVEY LECTURES, DISEASES OF THE NERVOUS SYSTEM. 12 lectures given during the first term. Professors Rasmussen, McNaughton and Staff
- 3C CLINICS AND CONFERENCES IN CONJUNCTION WITH THE DEPARTMENTS OF MEDICINE AND SURGERY.

FOURTH YEAR

CLINICS AND CONFERENCES IN CONJUNCTION WITH THE DEPARTMENTS OF MEDICINE AND SURGERY.

ELECTIVE COURSES

- A. SEMINAR IN NEUROANATOMY, M.N.I.
 - 1. This course is given in combination with course 2A "Introduction to the Central Nervous System."
 - 2. Additional graduate seminars will be held co-ordinated with Course B.
 - 3. Graduate students are expected to act as demonstrators and to pass the same examination which is given in undergraduate course 2A, Professor McNaughton but with higher standing.
 - 4. Advanced Neuroanatomy for selected group; times to be arranged. Professor McNaughton
- B. SEMINAR IN NEUROPHYSIOLOGY.
 - 1. Lectures and examination together with undergraduate course 2A "Introduction to the Central Nervous System".
 - 2. Weekly seminars and demonstrations co-ordinated with Course A-2 (4 months, beginning in December). Mondays, 4:30 to 6:00
 - 3. Under exceptional circumstances, a paper on a neuro-physiological subject may be written by special arrangements as a substitute for B-1.

Professors Jasper, Elliott and Gloor

- C. COLLOQUIUM IN CLINICAL NEUROLOGY.
 - 1 hour weekly, clinics and lectures, Wednesdays, 5:00 p.m. M.N.I. (9 months). Staff and Visiting Lecturers
- D. SEIZURE MECHANISMS AND CEREBRAL LOCALIZATION: CLINICAL ELECTRO-ENCEPHALOGRAPHIC, AND ROENTGENOGRAPHIC CONFERENCE.
 - M.N.I. 1½ hours weekly (9 months). Tuesdays, 4:00 to 5:30 p.m.
 - Professors Rasmussen, Jasper, McNaughton and McRae
- E. OUTLINE OF NEUROCHEMISTRY

Instruction in neurochemistry in addition to that provided in course B-2 may be obtained by special arrangement. Professor Elliott

- F. NEUROPATHOLOGY.
 - 1. Six months laboratory work in neuropathology.

Professors Mathieson and Bertrand

2. Conference in neuropathology, Thursday 4-5 p.m.

Professors Mathieson and Gertrand

Introduction to Histopathology of the Nervous System.
 A short basic course for a limited number. By special arrangement with Professor Mathieson.

For graduate credit, courses Nos. 1 and 2 are required. Under special circumstances written and/or oral examinations may be substituted for Nos. 1 and 2 for students who have taken course No. 3.

G. NEUROLOGICAL RADIOLOGY.

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M.N.I.
Lecturer
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- 1. Lecture demonstrations (3 months beginning in September). Mondays 4:30 to 6:00 p.m.
- 2. Colloquium, 1 hour weekly (9 months) Mondays, 9:00 a.m.

 Professor McRae

DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

Professor	G. B. MAUGHAN, Chairman
Associate Professors	W. R. FOOTE
PINCS TO A STATE OF THE STATE O	J. P. A. LATOUR
	K. T. MacFarlane
	G. A. SIMPSON
Assistant Professors	J. L. MACARTHUR
	T. PRIMROSE
	D. W. Sparling
	G. J. STREAN
THE STUDY WILL PROSE ACCOUNTS OF THE STREET	F. J. TWEEDIE
Lecturers	
P. R. BLAHEY	E. A. MACCALLUM
H. B. BOURNE	H. Oxorn
GRACE DONNELLY	J. H. ROUTLEDGE
SIMON GOLD	M. H. V. Young
M. HENDELMAN	
Demonstrators	
G. H. ARRONET	R. M. Parsons
J. R. Dodds	J. Portnuff
J. S. Henry, Jr.	P. C. TREMBLAY
Teaching and Administrative Assi	stants
R. P. BECK	W. D. Fraser

The course is designed to impart a fundamental knowledge of the processes of human parturition, gynaecology and the care of the New-born. The student is introduced to the subject in his Second year. Thereafter in

both his Third and Fourth years, intensive teaching is carried out using to the full the facilities of the Royal Victoria Montreal Maternity Hospital and to a lesser extent the gynaecological wards of the Montreal General Hospital. The Royal Victoria Montreal Maternity Hospital is the largest teaching unit of its kind in Canada and the clinical material to be found in its wards is unsurpassed.

REQUIRED COURSES

SECOND YEAR-

An introductory course of twelve lectures is given by Professor Maughan during the last term. Following a review of the embryology and anatomy of the female genital tract the particular biochemical and endocrine aspects of the subject are taken up. The course closes with a description of the physiology of pregnancy and labour. Lectures are held in the Medical Building, McGill University.

THIRD YEAR-

OBSTETRICS

During this year, twenty-eight lectures are given to teach the fundamentals of pregnancy, labour and the puerperium by the members of the Royal Victoria Montreal Maternity Hospital Staff. Following this series the Montreal General Hospital Staff conduct five lecture classes as an introduction to gynaecology. Medical Building, McGill University.

An intensive six weeks of instruction in obstetrics is given each group of students during the academic year by the Staff of the Royal Victoria Montreal Maternity Hospital. Students group are further divided into smaller tutorial units so that individual students can be given the greatest opportunity to take part in the practical work of the class.

Eighteen hours are devoted to Manikin Instruction. Physical diagnosis at the bedside and Clinical Management in the wards and case rooms are allocated six hours each.

Professor Maughan conducts six seminars on the Principles and Theory of Obstetrics and a further six hours are taken up by the members of the Staff in reviewing current work in the subject.

Six hours of gynaecological colloquia are given by a senior member of the Royal Victoria Montreal Maternity Hospital Staff to augment the gynaecological teaching noted below.

Students are also required to attend Departmental Ward Rounds in the Royal Victoria Montreal Maternity Hospital when interesting cases are discussed and lectures given on the latest advances in the field. Six classes are given by Doctor G. Nickerson, Paediatrician-in-Chief of the Royal Victoria Hospital and his Staff to introduce the student to the care of the new-born.

GYNAECOLOGY

Thirty-six demonstrations or lectures at the bedside or in the Out-Patient Department, to demonstrate the diagnosis and treatment of gynaecological disorders.

Professor MacFarlane and Assistants, Montreal General Hospital.

FOURTH YEAR-

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ng case

No formal lectures are given during the intensive four week course in obstetrics and gynaecology which is held entirely in the Royal Victoria Montreal Maternity Hospital. Students are coached in small groups and will live in the hospital for at least nine days. While living in, they are expected to participate in the work of the delivery rooms and wards. Written case reports are required and the student's progress is assessed partly on the care taken in the recording of the assigned cases and their follow-up. Teaching is divided between obstetrics and gynaecology using the facilities of the indoor and outdoor departments.

An eight hour refresher course in Manikin is given.

Professor Maughan conducts group hospital rounds once a week.

Twenty-four hours are devoted to bedside clinics on antepartum and portpartum management of the obstetrical patient with particular emphasis on the recognition and treatment of complications.

Eight hours of revision seminars.

Doctor Primrose

Sixteen hours are devoted to the discussion of problems presented by the students.

R.V.M.M.H. Staff

Attendance at Outdoor clinics four afternoons a week is compulsory. Minor gynaecology and antepartum care are taught by the Staff members in charge of the cases. Students are also required to be present at Departmental Staff rounds each Wednesday morning during term.

Twelve bedside clinics are given in gynaecology by members of the Staff.

Eight lecture-demonstrations in Gynaecological Pathology are given by Doctor Latour and assistants who are also responsible for four hours of clinical instruction on the diagnosis and treatment of genital cancer.

Clinical Endocrinology is reviewed in four sessions of one hour.

Doctor Nickerson and Staff offer four lectures on New-born Paediatrics together with eight demonstrations in the nurseries.

Obstetrics textbooks: R. W. Johnstone and R. J. Kellar, Textbook of Midwifery, 17th ed. (Black 1957); N. J. Eastman, Williams' Obstetrics, 11th ed. (Appleton 1956).

Gynaecological textbooks: F. W. Roques, Diseases of Women, 9th ed. (Arnold 1953).

DEPARTMENT OF OPHTHALMOLOGY

Professor JOHN C. LOCKE, Chairman

Associate Professor Benjamin Alexander
J. V. V. Nicholls

Assistant Professor R. J. VIGER

Lecturers

S. T. Adams
R. A. Bourne
L. S. S. Kirschberg
Sean B. Murphy

Demonstrators

J. B. Conroy
Hugh Duncan
R. W. Pearman

R. B. RAMSEY

WILLIAM TURNBULL

Teaching Fellow John A. Foreman

The undergraduate work in Ophthalmology is designed to meet the needs of a well-trained general practitioner and embraces the following courses in the Second, Third and Fourth years of the Medical course:

SECOND YEAR

1. ROUTINE EXAMINATION OF THE EYE.

The various tests used in routine examination of the eye are demonstrated. Instruction in the use of the ophthalmoscope is emphasized. Five hours.

2. PATHOLOGY OF THE EYE.

Six hours: two periods of three hours each.

THIRD YEAR

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1. LECTURES TO THE ENTIRE CLASS.

These provide a survey of the entire field and are designed to furnish a background of essential information for the clinical work.

Twelve hours.

2. PRACTICAL OPHTHALMOSCOPY.

Montreal General and Royal Victoria Hospitals.

Nine hours.

3. ELECTIVE COURSE IN OPHTHALMOLOGY.

This four-week course is given three times during the latter half of the Third year. The number of students in any four-week period is limited to two. Most of the time is spent at the Montreal General and Royal Victoria Hospitals. Teaching in Paediatric Ophthalmology is divided between the Royal Victoria and Montreal Children's Hospitals. A varied and intensive program of practical and didactic instruction is provided.

The classes include attendance at general and special clinics, at ward rounds and seminars, and at formal demonstrations and tutorials. Scheduled periods in the eye operating room provide the opportunity to observe the more common operative procedures. The students are assisted in the preparation of an assigned topic which requires them to consult current ophthalmic literature. Instruction in specialized methods of examination of the eye is provided. Emphasis is placed on the participation of the eye in systemic diseases and on eye diseases which the general practitioner will be called upon to treat.

FOURTH YEAR

1. PRACTICAL CLINICAL OPHTHALMOLOGY

Cases from the eye outpatient and indoor services are presented and discussed. Emphasis is on ocular problems that are of greatest moment in general practice.

Nine hours.

Textbooks: Francis H. Alder, Gifford's Textbook of Ophthalmology, 6th ed. (Saunders, 1957); C. A. Perera, May's Manual of the Diseases of the Eye, 21st ed. (Williams and Wilkins, 1953).

Reference books: W. S. Duke-Elder, Textbook of Ophthalmology, 7 vols. (Mosby, 1932-54); Eugene Wolff, Anatomy of the Eye and Orbit (Blakiston, 1954); Eugene Wolff, Pathology of the Eye, 3rd ed. (Blakiston, 1951); Francis H. Adler, Physiology of the Eye, 3rd ed. (Mosby, 1959).

DEPARTMENT OF OTO-LARYNGOLOGY

Professor W. J. McNally, Chairman

Associate Professors E. E. Scharfe E. A. Stuart

Assistant Professors H. E. McHugh E. John Smith

R. PATRICK GANNON

Lecturers

J. D. Baxter
Arnold Grossman
G. T. Shimo

Demonstrators R. Hall McCov R. MacMillan W. H. Novick

Instruction in Oto-Laryngology is given to students in each of the four years and is designed to meet the needs of the general practitioner. The clinical courses are conducted in the wards and out-patient departments of the Montreal General, the Royal Victoria and the Montreal Children's Hospitals. The practical demonstrations are given before small groups of students.

SECOND YEAR

Physical diagnosis is taught in the Second year in six demonstrations. The students review the anatomy of the ears, nose and throat and are taught to use the head mirror and the special instruments more commonly used in the examination of these parts.

THIRD YEAR

Clinical instruction in the Out-door Clinics and wards is given to small groups in "block time" consisting of consecutive mornings for one week for each group. Twelve lectures on Ear, Nose and Throat subjects are given to this class as a whole during the third term.

OURTH YEAR

Clinical instruction is carried out in the Out-patient departments in small groups and the students are given as much personal supervision as possible. The students attend two clinics per week for eight consecutive weeks and take an active part in the examination and treatment of the patients.

ELECTIVE COURSES

The new curriculum provides for Elective Courses of one month in this specialty or in combination with Ophthalmology.

Text and Reference Books: L. R. Boies, Fundamentals of Otolaryngology, 3rd ed. (Saunders 1959); Chevalier Jackson and C. L. Jackson, Diseases of the Nose, Throat and Ear, 2nd ed. (Saunders 1957); A. Logan Turner, Diseases of the Nose, Throat and Ear, 5th ed. (Wright 1952); T. G. Wilson, Diseases of the Ear, Nose and Throat in Children (Heinemann 1955).

DEPARTMENT OF PAEDIATRICS

Professor Alan Ross, Chairman

Associate Professors

D. V. Bates
R. L. Denton
A. L. Johnson

E. M. Worden

Assistant Professor P. N. MacDermot

Lecturers H. L. BACAL
BEN BENJAMIN

Ben Benjamin J. H. O'Neill

Honorary Lecturer F. Clarke Fraser

Demonstrators

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PETER AULD D. A. HILLMAN P. BANISTER ELIZABETH HILLMAN P. H. BEAUDRY DAVID KLEIN HELEN BRICKMAN A. J. MARKUS H. R. Brodie Frances McCall D. R. McCrimmon J. S. CHARTERS D. K. CLOGG G. H. NICKERSON T. A. COWAN SYDNEY PEDVIS S. I. DOUBILET C. R. SCRIVER J. H. ELDER PIERRE SENECAL FREDERICK SHIPPAM J. E. GIBBONS R. B. GOLDBLOOM

J. H. ELDER
J. E. GIBBONS
R. B. GOLDBLOOM
VICTOR C. GOLDBLOOM
R. GOURDEAU
PIERRE SENECAL
FREDERICK SHIPPAM
HYMAN SURCHIN
W. W. TIDMARSH
S. J. USHER
ELEANOR HARPUR
ISOBEL WRIGHT

Teaching Fellows M. M. BELMONTE
A. H. FINLEY
R. USHER

REQUIRED COURSES

LECTURES

- (a) CHILD DEVELOPMENT AND HUMAN RELATIONSHIPS
 In the course of twelve periods with the First year class, a child psychiatrist and a paediatrician collaborate at each session in presenting various aspects of child development from the prenatal period to adolescence. With the aid of patients and appropriate films, human relations and their development are discussed from the broadest possible point of view.
 - (b) A series of 24 lectures once weekly during the Third year designed to cover the various aspects of Diseases of Children; Nutrition, Hygiene, Infections and Communicable Diseases, Preventive Medicine, etc. Staff
- 2. DISEASES OF THE NEWBORN: ROYAL VICTORIA MONTREAL MATERNITY
 HOSPITAL
 - (a) A weekly clinic demonstration to groups of students of the Third year during their obstetrical quarter.
 - (b) A weekly lecture to groups of Fourth year students during their four weeks in Obstetrics.
 - (c) A bi-weekly demonstration in the nurseries to the group of Fourth year students in residence during their four weeks in Obstetrics.

Staff

3. CLINICAL PAEDIATRICS

- (a) Groups during the final year spend eight weeks entirely at the Montreal Children's Hospital as clinical clerks taking part in bedside clinical conferences and, under supervision, caring for patients in the outpatient department.
- (b) Normal growth and development, the care and feeding of the normal infant, immunization procedures, and preventive paediatrics are taught at the Child Health Clinic in the Montreal Children's Hospital. Staff
- (c) A series of demonstrations to groups of students on the common infectious diseases is given at the Alexandra Hospital as part of the instruction of the final year.

 Staff

Textbooks: W. E. Nelson, Textbook of Pediatrics, 7th ed. (Saunders 1959); D. H. Paterson and J. F. McCreary, Pediatrics (Lippincott 1956).

Reference Books: J. P. Caffey, Pediatric X-ray Diagnosis, 3rd ed. (Year Bk. Pubs. 1956); A. G. DeSanctis and Chas. Varga, Handbook of Pediatric Medical Emergencies, 2nd ed. (Mosby 1956); J. L. Gamble, Chemical

Anatomy, Physiology and Pathology of Extracellular Fluid (Harvard Univ. Pr. 1954); A. L. Gesell, The Embryology of Behavior, the Beginnings of the Human Mind (Harper 1945); Morris Green and J. B. Richmond, Pediatric Diagnosis (Saunders 1954); Leo Kanner, Child Psychiatry, 3rd ed. (Thomas 1957); J. D. Keith, R. D. Rowe and Peter Vlad, Heart Disease in Infancy and Childhood, N.Y. (Macmillan 1958); C. A. Smith, The Physiology of the Newborn Infant, 3rd ed. (Thomas 1959); Lawson Wilkins, Diagnosis and Treatment of Endocrine Disorders in Childhood and Adolescence, 2nd ed. (Thomas 1957).

INSTITUTE OF PARASITOLOGY

Professor	T. W. M. CAMERON, Director
Associate Professors	D. FAIRBAIRN
	M. Laird
Assistant Professors	R. P. HARPUR
	G. A. SCHAD
	C. E. TANNER
Research Associates	E. MEEROVITCH
	G. A. Webster

REQUIRED COURSES

SECOND YEAR

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The animal parasites of man (protozoa, helminths and arthropods) are considered as an integral part of the Second year course in Medical Microbiology (see p. 1622). Exotic parasites are discussed briefly.

ELECTIVE COURSES

The Institute not only provides facilities for advanced research work at the Institute of Parasitology, but offers didactic courses in general and comparative parasitology and courses leading to the degrees of M.Sc., and Ph.D. (See Announcement of the Faculty of Graduate Studies and Research.)

Textbook: T. W. M. Cameron, The Parasites of Man in Temperate Climates, 2nd ed. (Univ. of Toronto Pr. 1946).

DEPARTMENT OF PATHOLOGY

Strathcona Professor

Associate Professors

G. C. McMillan, Chairman

W. H. Mathews

A. C. Ritchie

F. W. Wiglesworth

Assistant Professors

D. S. KAHN
W. J. PIROZYNSKI H. SHELDON

Lecturers ILONA KERNER G. MATHIESON S. Moore

> SUSAN RITCHIE PAULA H. SCHOPFLOCHER

M. A. SIMON I. P. LATOUR

Demonstrator

REQUIRED COURSES

1. COURSE IN GENERAL PATHOLOGY (FIRST YEAR)

Illustrated lectures during the Spring term totalling 36 hours. Professors McMillan and Ritchie

Practical laboratory classes during the Spring term totalling 72 hours. Professor Pirozynski and Demonstrators

2. COURSE IN SPECIAL PATHOLOGY (SECOND YEAR)

A. Illustrated lectures throughout the Second year totalling 72 hours. Professor McMillan and Staff

B. Practical laboratory classes throughout the Second year totalling 72 hours.

C. Group demonstrations throughout the Second year totalling 72 hours. Staff

3. COURSE IN APPLIED PATHOLOGY (THIRD AND FOURTH YEARS)

A. Clinico-pathological Conferences alternate weeks throughout the Third year totalling 54 hours. Professor McMillan and Staff

B. Instruction in the performance of autopsies with demonstration of autopsy findings during the Fourth year.

Pathological Institute Professor Pirozynski Montreal General Hospital Professor Mathews Professor Wiglesworth The Montreal Children's Hospital

Textbooks: W. A. D. Anderson, Pathology, 3rd ed. (Mosby 1957); Wm. Boyd, A Textbook of Pathology, 6th ed. (Lea and Febiger 1953); Wm. Boyd, Pathology for the Surgeon, 7th ed. (Saunders 1955); Wm. Boyd, Pathology for the Physician, 6th ed. (Lea and Febiger 1958); C. Payling Wright, Introduction to Pathology, 2nd ed. (Longmans Green 1954).

Reference Books: J. G. Greenfield et al., Neuropathology (Arnold 1958); G. D. Lumb, Tumours of Lymphoid tissue (Livingstone 1954); E. Novak, and E. R. Novak, Gynecologic and Obstetric Pathology, 4th ed. (Saunders 1958); R. A. Willis, Pathology of Tumours, 2nd ed. (Butterworth 1953).

DEPARTMENT OF PHARMACOLOGY

Professor K. I. Melville, Chairman

Associate Professor B. G. Benfey
Assistant Professors N. R. EADE

Lecturers

B. A. Kovacs

L. E. Francis

G. E. Joron

R. A. MILLAR H. E. SHISTER

The object of the course in pharmacology is to elucidate, as far as knowledge permits, the action of drugs, and thereby lay a sound foundation for drug therapy.

REQUIRED COURSES

1A. PHARMACOLOGY

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The action of drugs is considered on the basis of information derived by means of experimental methods and careful clinical observation. The chemistry of the drugs studied is emphasized in order that the student may have a good foundation upon which to follow future developments of the subject intelligently.

Two lectures a week during the Autumn and Winter terms. Second year.

1B. PHARMACOLOGICAL LABORATORY

The experiments are chosen to illustrate the lecture course.

One period (three hours) a week during the Autumn and Winter terms.

CONFERENCES

During the year four conferences of 45 minutes each and limited to six students, will be arranged. These conferences will replace the regular laboratory periods at the times specified.

LECTURE-DEMONSTRATIONS

In conjunction with the Department of Medicine (Therapeutics) a series of six (6) one hour lecture-demonstrations is held in the Teaching Hospitals during the course. These are designed to present selected clinical cases illustrating practical applications of drug usage.

2. TOXICOLOGY

A course of ten lectures devoted to the problems of acute poisoning (occurence, symptoms, modifying factors, diagnosis and treatment), is given during the 3rd term of the Second year. Dr. G. E. Joron

Textbooks: Applied Pharmacology (Clark), 9th ed., by Andrew Wilson and H. O. Schild (Churchill 1959); J. H. Gaddum, Pharmacology, 5th ed. (Oxford Univ. Press 1959); V. A. Drill, Pharmacology in Medicine, 2nd ed. (McGraw-Hill 1958); L. S. Goodman and A. Z. Gilman, Pharmacological Basis of Therapeutics, 2nd ed. (Macmillan 1955); J. C. Krantz and C. J. Carr, Pharmacologic Principles of Medical Practice, 4th ed. (Williams and Wilkins 1958); J. J. Lewis, An Introduction to Pharmacology (Livingstone, 1960).

ELECTIVES

Suitably prepared students may undertake special research or training projects under direction of a staff member at any time, by application to the Chairman of the Department.

Advanced courses leading to the degrees of M.Sc. or Ph.D. will be arranged to suit individual cases. See Announcement of the Faculty of Graduate Studies.

DEPARTMENT OF PHYSIOLOGY

Joseph Morley Drake Professor F. C. MACINTOSH, Chairman

A. S. V. BURGEN Professors

B. D. BURNS KATHLEEN G. TERROUX

Associate Professor R. I. BIRKS Assistant Professors

J. O. BLISS

SIMON DWORKIN BERNICE GRAFSTEIN

E. J. REININGER

PAUL SEKELJ

CARL PINSKY C. M. McBride O. M. SOLANDT

HYMAN WEINER Sessional Lecturer

REQUIRED COURSES

BIOCHEMISTRY-PHYSIOLOGY 1.

Lecturers

Monday to Friday, at 9 a.m.

BIOCHEMISTRY—PHYSIOLOGY 1D.

Demonstrations and tutorials: one hour a week.

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BIOCHEMISTRY—PHYSIOLOGY 1L.

Laboratory: six hours a week.

This is an integrated course of lectures, tutorials, demonstrations and laboratory work, given by the two departments.

INTRODUCTION TO MEDICINE

One hour a week, from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are conducted in turn by the Departments of Anatomy, Biochemistry, and Physiology.

SECOND YEAR

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2. ANATOMY AND PHYSIOLOGY OF THE CENTRAL NERVOUS SYSTEM

Two hours lecture, two hours laboratory, and one hour demonstration a week, during the second term.

This is one course, given by the Departments of Anatomy, Neurology and Neurosurgery, and Physiology.

ELECTIVE COURSES

1E. SELECTED TOPICS IN PHYSIOLOGY

These are discussed from the point of view of current research in the Department.

2 hours a week.

3E. RESEARCH IN BIOCHEMISTRY AND PHYSIOLOGY

A limited number of students may take Biochemistry or Physiology as elective subject in their Third year. These students will be given the opportunity of participating in departmental research projects.

DEPARTMENT OF PSYCHIATRY

Professors

D. E. CAMERON, Chairman

R. A. CLEGHORN

A. E. MOLL

Associate Professors T. E. DANCEY

V. A. KRAL

H. LEHMANN

A. W. MACLEOD

R. B. MALMO

M. SAFFRAN

T. L. Sourkes

TAYLOR STATTEN

E. D. WITTKOWER

AS	sista	nt P	rotes	SOYS

S. Albert	P. EDGELL
J. AUFREITER	H. F. ELLENBERGER
H. AZIMA	N. B. EPSTEIN
M. BIRMINGHAM	R. C. M. HAMILTON
C. Bos	L. G. HISEY
H. CAPLAN	H. B. MURPHY
B. M. CORMIER	M. S. RABINOVITCH
I. F. DAVIS	C. A. Roberts

Lecturers

G. AUFREITER	L. LEVY
F. AZIMA	ALAN MANN
S. BARZA	L. MERGLER
J. BEAUBIEN	D. PIVNICKI
C. H. CAHN	R. H. PRINCE
H. B. DUROST	G. J. SARWER-FONER
B. GRAD	C. H. SKITCH
BRIAN HUNT	C. C. SMITH
R. C. A. HUNTER	J. C. STANLEY
W. G. KRAUSER	W. STRAKER
H. KRAVITZ	G. C. TAYLOR
D. LEVIN	S. WILNER

Sessional Lecturers

M. PRADOS and B. SILVERMAN

FO

Demonstrators

W. S. Agras	A. F. MESZAROS
THOMAS BAN	H. F. MULLER
R. L. DE VERTEUIL	J. NAIMAN
K. Ferguson	G. O. PATTON
H. Grauer	P. D. ROPER
G. HANRAHAN	A. Russell
J. L. LAPOINTE	J. SANGOWICZ
E. LESTER	R. M. SMITH
E. LEVINSON	L. Solyom
E. LIBMAN	W. J. STAUBLE
Z. J. Lipowski	B. WAINRIE
F. W. LUNDELL	D. Webster
J. MACKAY	

REQUIRED COURSES

FIRST YEAR

GROWTH, DEVELOPMENT AND HUMAN RELATIONSHIPS: A total of 16 hours, the first two being introductory lectures in psychobiology. The remaining

hours of the course will include technique of child examination, diagnosis of child psychiatric states, child psychiatric problems as seen in various treatment facilities, including paediatrics out-patient clinic.

Professors Cameron, Statten, Ross (Paediatrics) and Staffs

SECOND YEAR

Two courses of lectures: (a) 12 1-hour lectures on psychopathology; (b) 12 2-hour sessions on psychiatric case studies, with case presentation.

Professors Roberts, Lehman and Staff

THIRD YEAR

Six weeks block teaching, distributed among six teaching centres, to acquaint students with the examination of patients and understanding of some of the major factors involved in abnormal behaviour. Diagnostic procedures, psychotherapeutic and physical methods of treatment, will be among the aspects covered. During this year students will be provided with tutors on a group basis and will also have more specialized training in the areas of child psychiatry, community psychiatry and mental disorders.

Professors Cameron, Moll, Dancey, Roberts, Statten, Silverman and Staffs

FOURTH YEAR

The teaching in this year will be largely focused on clerkship. Students will attend tutorials, ward rounds, seminars, conferences, etc., at the Allan Memorial Institute, Montreal General Hospital and Queen Mary Veterans Hospital.

Professors Cameron, Moll, Dancey and Staffs

DEPARTMENT OF RADIOLOGY

Professor Carleton B. Peirce, Chairman

Associate Professors J. J. L. Bouchard
D. L. McRae
D. J. Sieniewicz

Assistant Professors E. F. Crutchlow

J. S. Dunbar R. G. Fraser

Assistant Professor
of Physics

L. G. Stephens-Newsham

N. M. Brown

R. M. Cunningham

F. A. Grainger

B. B. Hale

M. N. Lougheed

T. F. B. PHILIPS

Demonstrators D. Berger J. A. HAZEL J. A. Liver F. R. MacDonald D. W. MACEWAN F. McConnell G. B. SKINNER

Demonstrator (Physics)

R. A. BEIQUE

FIRST YEAR

In co-operation with the Department of Anatomy, illustrative demonstrations for the course in "Living Anatomy" are available on the roentgenologic anatomy of the skeletal, respiratory, gastro-intestinal, and urogenital systems, especially in regard to functional anatomy of joints, the thoracic viscera, and the alimentary tract.

Professor Peirce and Staff

SECOND YEAR

INTRODUCTION TO RADIOLOGY

A course of twelve lectures is designed to (a) familiarize the medical student with the principles of radiation physics and radiation biology; (b) introduce the student to the basic principles of diagnosis and therapy by means of ionizing radiations; and (c) demonstrate the uses and limitations of radiological methods of examination and treatment in medicine. The physical characteristics of ionizing radiations (x-rays, alpha, beta and gamma radiations of the natural and manufactured radioactive isotopes) and their biological effects on tissues are discussed and demonstrated. This is followed by consideration and demonstration of the application of these features to the investigation of the structure and function of the various organic systems and supporting structures of the body in medical examination and diagnosis. Similarly these features are considered as agents in the treatment of neoplasia and other functional abnormalities in disease. Illustrative material is used extensively.

Professor McRae

During his study of physical diagnostic methods the student's introduction to the uses of radiologic methods will be amplified by observation of fluoroscopic examinations of the cardio-respiratory and gastro-intestinal tracts and through demonstrations of other roentgenologic studies.

Professors Peirce and Sieniewicz and Staff

THIRD YEAR

(a) Clinical applications of the diagnostic and therapeutic uses of ionizing radiations are discussed and demonstrated to the several clinical groups of students attending both Medicine and Surgery for periods of at least one and one-half hours per week in each of the major teaching hospitals. The case material is so arranged that during the four such eight-week periods in the Third and Fourth years a wide field of systemic or organic diseases is covered in regard to diagnosis and the general principles of therapeutic application demonstrated, including some acquaintance with the uses of radioactive isotopes, both diagnostically and therapeutically.

Professors Peirce, Bouchard and Sieniewicz and Staff

(b) Elective: Third year students who choose Radiology as their elective field are assigned a tutor under whose guidance they are able to devote as much of their time and energy as possible to the study of radiologic investigation or treatment of disease. Each is required to select some special topic for investigation and the preparation of an essay on the subject which he presents formally before the staff of the Department in the respective hospital.

Professors Peirce, Bouchard and Sieniewicz and Staff

FOURTH YEAR

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Clinical applications of the diagnostic and therapeutic uses of ionizing radiations are continued as in the Third year in weekly periods of at least 1½ hours each while attending Medicine and Surgery in the general teaching hospitals, and in addition each group attending Paediatrics has at least an hour per week on radiologic manifestations of disease in infancy and chilhood.

Professors Peirce, Bouchard and Sieniewicz, Assistant Professor Dunbar and Staff

Text and Reference Books: A. E. Barclay, The Digestive Tract, 2nd ed. (Camb. Univ. Pr. 1936); J. P. Caffey, Pediatric X-ray Diagnosis, 3rd ed. (Year Bk. Pubs. 1956); Otto Glasser, et al., Physical Foundations of Radiology, 2nd ed. (Harper 1952); Ross Golden, et al., Diagnostic Roentgenology, 3 vols. (Nelson 1936-41); F. J. Hodges, et al., Radiology for Medical Students, 3rd ed. (Year Bk. Pubs. 1958); G. W. Holmes, and L. L. Robbins, Roentgen Interpretation, 8th ed. (Lea and Febiger 1955); Alban Kohler, Roentgenology, 2nd ed. (Bailliere 1935); Isadore Meschan, An Atlas of Normal Radiographic Anatomy, 2nd ed. (Saunders 1959); Isadore Meschan, Roentgen Signs in Clinical Diagnosis (Saunders 1956); E. P. Pendergrass, J. P. Schaeffer and P. J. Hodes, Head and Neck in Roentgen Diagnosis, 2nd ed., 2 vols. (Thomas 1956); E. A. Pohle, Theoretical Principles of Roentgen Therapy (Lea and Febiger 1938); LeRoy Sante , Principles of Roentgenological Interpretation, 11th ed. (St. Louis Bk. Distrib. Co. 1958); S. C. Shanks and P. J. Kerley, Textbook of X-ray Diagnosis, 3rd ed., 4 vols. (Saunders 1957-60); M. B. Wesson, Urologic Roentgenology, 3rd ed. (Lea and Febiger 1950); W. H. Beierwaltes, P. C. Johnson and A. J. Solari, Clinical Use of Radioisotopes (Saunders, 1957); Joseph Selman, The Fundamentals of X-Ray and Radium Physics, 2nd ed. (Thomas 1958); Friedrich Ellinger, Medical Radiation Biology, (Thomas 1957).

POSTGRADUATE INSTRUCTION

DIPLOMA IN RADIOLOGY

Details of the Postgraduate course leading to the Diploma in Radiology of the Faculty of Medicine may be obtained from the Dean's Office or the Chairman of the Department.

Postgraduate training prerequisite to certification in the specialty by College of Physicians and Surgeons, Province of Quebec, the Royal College of Physicians and Surgeons (Canada) or the American Board of Radiology is available in the teaching hospitals in conjunction with the Diploma Course for selected graduates of approved Faculties or Schools of Medicine.

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PARTMENT OF SURGERY	regard to deliged a disease of
Professors	H. R. ROBERTSON, Chairman D. R. Webster
Associate Professors	
F. N. Gurd	H. S. MORTON
J. C. Luke	H. F. Moseley
J. R. McCorriston	D. R. MURPHY
C. A. MACINTOSH	A. M. VINEBERG
J. S. MARTIN	F. M. Woolhouse
Assistant Professors	
H. A. BAXTER	G. A. HOLLAND
S. G. BAXTER	E. A. MACNAUGHTON
W. M. COUPER	J. D. PALMER
C. M. GARDNER	H. F. OWEN
J. W. GERRIE S. C. S	KORYNA (Experimental Surgery)
Lecturers	
J. C. DICKISON	G. D. LITTLE
J. A. DRUMMOND	R. C. Long
M. A. ENTIN	D. D. Munro
J. F. HOPKIRK	J. C. SUTTON
R. N. LAWSON	Е. Ј. Таван
Demonstrators	
A. R. Bazin	J. R. Moore
H. E. BEARDMORE	D. W. RUDDICK
N. J. BELLIVEAU	Н. Ј. Ѕсотт
A. R. C. DOBELL	I. Shragovitch
R. L. ESTRADA	J. L. Shugar
L. G. HAMPSON	A. G. THOMPSON
A. F. Jones	E. W. WORKMAN
D. T. LIN	21 III II OKKBAN

ORTHOPAEDIC SURGERY

Associate Professors

J. G. Petrie
J. G. Shannon

Lecturers

A. A. Butler
R. G. Townsend
J. A. L. Walker

I. S. Bitenc
J. M. McIntyre
E. C. Percy
C. Laird Wilson

UROLOGY

Associate Professors

K. J. MACKINNON
R. G. REID
Lecturers

S. A. MACDONALD
J. T. MACLEAN
N. HALPERN
W. F. LINGARD
C. A. MOORE
T. NEARING
J. SUSSET

REQUIRED COURSES

SECOND YEAR

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Surgical teaching begins in the Spring term (12 weeks) of the Second year. In this year special attention is directed to the instruction and training of the student in proper methods of physical examination from the surgical point of view.

- 2A. A COURSE OF LECTURES (12) is given covering the basic principles of Surgery.
- 2B. GROUP CLASSES in the wards of the Montreal General and Royal Victoria and Queen Mary Veterans Hospitals. At these, small groups of students are instructed in methods of examination as applied to surgery and its allied specialties.

THIRD YEAR

The student comes into a more intimate contact with the patients, and in the surgical term of eight weeks is assigned cases, writes case reports, acts as dresser, and assists at operations. His clinical work is confined to one hospital—either the Montreal General Hospital or the Royal Victoria Hospital.

3A. LECTURES IN SURGERY in the Montreal General and Royal Victoria Hospitals, one day a week throughout the year.

- 3B. GROUP WARD CLASSES in the Montreal General and the Royal Victoria Hospitals, five times a week during the term.
- 3C. CASE REPORTING. Patients are allotted to students who act as reporters, dressers, and assistants at operations.

FOURTH YEAR

In the Final year the student spends eight weeks attached to the surgical service of a hospital. Students taking their surgical instruction at the Montreal General Hospital are required to live in for a period of four weeks during their term in general surgery. Those taking instruction at the Royal Victoria Hospital are required to live in for two weeks (one week while in anaesthesia and one week urology).

SURGICAL DISEASES OF CHILDREN

Some instruction in the surgical diseases of children is given during the trimester in which the students are assigned to paediatrics at the Montreal Children's Hospital as follows:

4A. GROUP WARD CLASSES three times a week throughout the trimester.

In their Final year students attend either the Shriners Hospital or the
Montreal Children's Hospital for further instruction in paediatric surgery.

ORTHOPAEDIC SURGERY

Some lectures covering the basic principles of orthopaedic surgery are given in the Second and Third years and members of the Orthopaedic Staffs of the Montreal General Hospital and Royal Victoria Hospital participate in the Second and Third year bedside clinics.

In the Final year seminars are conducted by members of the Orthopaedic Staff.

UROLOGY

In the Final year students are assigned to the Urological Services of the Montreal General Hospital and Royal Victoria Hospital for one week and, in addition to this, ward classes are held three times a week in each hospital.

Textbooks:

General Surgery: Ian Aird, Companion in Surgical Studies, 2nd ed. reprint 1958 (Livingstone 1958); Hamilton Bailey, Demonstration of Physical Signs in Clinical Surgery, 13th ed., (Bristol, John Wright and Sons 1960), Christopher's Minor Surgery, ed. by Alton Ochsner and M. E. DeBakey, 8th ed. (Saunders 1959); Frederick Christopher, Textbook of Surgery, 7th ed. (Saunders 1960); W. H. Cole and Robt. Elman, Textbook of Surgery, 7th ed. (Appleton 1959); H. F. Moseley, Textbook of Surgery, 3rd ed. (Mosby 1959).

Surgical Anatomy: A. Lee McGregor, Synopsis of Surgical Anatomy, 8th ed. (Williams and Wilkins 1957).

Fractions and Dislocations: R. Watson Jones, Fractures and Joint Injuries, 4th ed., 2 vols. (Livingstone 1952-1955), reprint 1960.

Urology: M. F. Campbell, Urology, 3 vols. (Saunders 1957); F. H. Colby, Essential Urology, 3rd ed. (Williams and Wilkins 1956); D. N. Eisendrath and H. C. Rolnick, Urology, 4th ed. (Lippincott 1938); R. Nesbit, Fundamentals of Urology, 4th ed. (Reed Miller Co. 1953).

Orthopaedic Surgery: W. C. Campbell, Operative Orthopaedics, 3rd ed., 2 vols. (Mosby 1956); Walter Mercer, Orthopaedic Surgery, 5th ed. (Arnold 1959).

GRADUATE INSTRUCTION

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- 1. Any medical graduate of McGill University who so desires may attend any of the regular undergraduate clinics. This opportunity frequently appeals to many of our graduates, who find in this plan a means of bringing their knowledge of medicine up to date.
- 2. Special graduate work is offered in every department, both in the laboratories and in the clinics. Applications in writing, addressed to the chairman of the department concerned, must state the qualifications and experience of the applicant and the nature of the work he desires to do, The minimum fee is \$30.00 a term (10 weeks).

A Diploma in Tropical Medicine and Hygiene is granted by McGil University.

This course is conducted by the Department of Health and Social Medicine, with the collaboration of other departments in the Faculty of Medicine and the assistance of members of other faculties in the University who have a special interest in this field.

The Department of Health and Social Medicine is housed in quarters at 515 Pine Avenue West, within easy access of the Medical Building. The building contains ample accommodation for lectures, seminars, and demonstrations. In addition to the excellent facilities of the Library of the Faculty of Medicine, which are at the disposal of students, the Department has its own library and reading-room. The building is also the headquarters of the Student Health Service.

DIPLOMA IN TROPICAL MEDICINE AND HYGIENE (D.T.M. & H.)

The course of instruction occupies a full academic year. Classes for the first term include bacteriology and immunology, epidemiology, environmental hygiene, industrial hygiene, and public health organization and

administration, vital statistics, biometrics, maternal, infant, pre-school and school hygienes, etc. Those for the second term are held at the Institute of Parasitology at Macdonald College of McGill University. The teaching collection at the Institute is a large and representative one.

The work is practical as well as theoretical, and includes a study of Parasitology and Medical Entomology, laboratory diagnoses of tropical and sub-tropical diseases, and lectures on the diseases of the tropics, on tropical hygiene, and minor sanitation.

Clinical instruction must, of necessity, be limited in temperate climates. This aspect is, therefore, deferred to the final part of the course which is given in the tropics at the conclusion of the didactic instruction. The course consists of clinical and field work for which arrangements have been made with Georgetown, British Guiana, Port of Spain, Trinidad, and Venezuela.

Candidates for the Diploma in Tropical Medicine and Hygiene must be graduates in medicine of a recognized university. Certain additional courses may be required of those who are not recent graduates or of those who have not had sufficient clinical practice.

The Fee for the Diploma in Tropical Medicine and Hygiene is \$250, or \$100 if preceded by a D.P.H. course or its equivalent.

Application must be made prior to June 1st.

BUILDINGS -

THE MEDICAL BUILDING

This building contains the Offices of Administration, the Medical Library (with its 90,000 volumes, its Reading Rooms, and their complete set of technical journals), the Department of Anatomy, and the Museum of Anatomy. The Faculty of Dentistry is also in this Building.

The Department of Anatomy, with its commodious laboratories, its dissecting room, with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who desire opportunities for research are adequately cared for in this Department. The laboratories for Histology and Embryology have excellent facilities with space for 120 students, and smaller rooms for research.

THE BIOLOGICAL BUILDING

Completed in 1922, this building was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. The

extensive structure—184 feet by 60 feet—houses on each of its floors laboratories devoted respectively to Botany, Zoology, Genetics, Biochemistry, Physiology, and Pharmacology.

Each of these departments is provided with laboratories and units for undergraduate teaching and graduate research.

THE PATHOLOGICAL INSTITUTE

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This building, which was opened for use in October, 1924, and which is connected with the Royal Victoria Hospital and the Montreal Neurological Institute by tunnels, is situated on the northeast corner of University Street and Pine Avenue, adjacent to the Medical Building. It provides accommodation for the departments of Pathology and Bacteriology and includes a Pathological Museum and museum workshops. It combines under one roof quarters for teaching and research in these departments, and it provides ample facilities and equipment for instruction of students, and the research work of the Staff.

THE MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. Unsurpassed in its equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neurosurgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine. In addition to wards, operating rooms, and laboratories for treatment and study of diseases of the nervous system, the building provides facilities for graduate study and research in the related fields of basic science.

THE ALLAN MEMORIAL INSTITUTE

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building was reconstructed to permit of the establishment of a fifty bed unit, together with extensive research laboratories, and was officially opened July 12th, 1944. Since that time, both undergraduate and postgraduate teaching have been carried on.

THE DONNER BUILDING

The Donner Building for Medical Research, adjacent to the Medical Building, was completed in September 1948. Its erection was made possible through the generosity of William H. Donner of Philadelphia, the late founder of the International Cancer Research Foundation, who provided the funds necessary for the construction of a building entirely devoted to medical research.

This building houses the Maxwell Lauterman Laboratories for Experimental Surgery and laboratories for Dentistry and Experimental Psychology.

HOSPITALS

Few medical schools on this continent offer better facilities than those enjoyed by the students of McGill University. Ideal academic and topographical conditions exist for the teaching of scientific and practical medicine.

The Medical Faculty is on the University Campus, and is thus in juxtaposition to the scientific laboratories of the University and to the largest teaching hospital in the city. Co-operation with the scientific and cultural departments of the University, as well as with clinical facilities, is thereby made easy.

The following hospitals and institutions are at the disposal of the teaching staff and students for clinical and pathological study:

Royal Victoria Hospital
Montreal General Hospital
Montreal Children's Hospital
Alexandra Hospital for Infectious Diseases
Verdun Protestant Hospital
Royal Edward Laurentian Hospital
Royal Victoria Montreal Maternity Hospital

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical Faculty. These affiliated hospitals contain over 3,000 beds.

The Royal Victoria Hospital, in juxtaposition to the University buildings, comprises the following units under one administration:

- 1. The Royal Victoria Hospital proper, or the Main Building;
- 2. The Ross Memorial Pavilion for private patients;
- 3. The Women's Pavilion-Royal Victoria Montreal Maternity;
- 4. The Allan Memorial Institute.

The total bed complement is 919, with 96 bassinets. Admissions total approximately 20,000 and confinements are in excess of 3,000 a year. There are some 80,000 visits annually to the Out-Patient Department. The University Clinic was established in 1924 and has facilities for both clinical laboratory work and research.

Post-mortems total 55 per cent of the deaths.

The number of resident physicians is 106.

The Royal Victoria Montreal Maternity Pavilion, with 214 beds for obstetrical and gynaecological cases. In this institution there are 117 teaching beds and an organized out-patient service which is of the greatest benefit to the undergraduate student. In a typical year, the obstetrical service cared for over 3,000 confinements in the Hospital. In the gynaecological section, over 2,000 cases are admitted during the year.

There are ten resident physicians.

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rtner ities in The Montreal General Hospital is a general hospital of 750 beds for the treatment of acute diseases. In a typical year, there were approximately 18,000 admissions, while out-patient consultations for the same period approximated 150,000. The resident and interne staff numbers 150.

The "Montreal General" was founded in 1821; two smaller buildings downtown had preceded it in 1816 and 1819. In actual age, therefore, it is not by any means the oldest hospital in Canada, but its record in clinical teaching is one of the longest on the North American continent.

As soon as the Hospital opened, its staff began to arrange for students and, in 1823, they opened the first Medical School in Canada, the Montreal Medical Institution, with 25 students. Their teaching was carried on partly at the Hospital.

It was this School which agreed to form the Medical Faculty of McGill University in 1828. The University at that time had practically no students of any kind, and as it was required by the terms of the McGill bequest that teaching should begin before 1829, on penalty of losing the estate, The Montreal Medical Institution, with its ready-made course came as a salvation. That was the beginning of the long and intimate association between the Hospital and the University.

The present building on Cedar Avenue was occupied in 1955.

The Montreal Children's Hospital has 291 public beds, and, in a typical year, admitted 6,000 patients. The attendance at its out-door department totalled over 60,000 visits. This hospital admits all classes of cases of disease in children except pulmonary tuberculosis and the communicable diseases, and enables students to get a broad concept of paediatrics.

There were 111 autopsies in a typical year, which represented 84.6% of all deaths.

The number of resident physicians is 40.

The Alexandra Hospital for Infectious Diseases, opened in 1906, with modern wards, cubicles, and equipment, is regularly attended by students, who receive demonstrations on the essential features of the exanthemata.

There are three wards for the treatment of tuberculosis in children. There are 150 beds (including 50 for tuberculosis) and the average yearly admissions range between 1,500 and 2,000.

There is a resident senior physician and there are three junior physicians.

The Verdun Protestant Hospital has 1,100 beds.

The Royal Edward Laurentian Hospital (Montreal Division), 3674 St. Urbain Street, consists of a large anti-tuberculosis dispensary and a 151-bed hospital unit designed and equipped for thoracic surgery. Its objectives are the study, prevention, and cure of tuberculosis. This Hospital, along with its Laurentian Division (located in Ste. Agathe des Monts) offers students excellent opportunities to obtain instruction in all aspects of chronic pulmonary disease, more particularly pulmonary tuberculosis.

THE MEDICAL LIBRARY

Medical Librarian

Honorary Librarian LLOYD G. STEVENSON GRACE HAMLYN

The Library, now of nearly 90,000 bound volumes, originally occupied the central front section of the medical building but has expanded its stack area to the north side on the two lower floors.

The Reading Room with accommodation for seventy-five people is on the fourth floor with a small periodical room adjacent. The third floor contains the stacks for bound journals and has three study rooms for use of members of the teaching staff. The second floor is devoted to administration and technical operations.

The chief value of the Library is in its periodical collection. About 1,800 journals are received currently. Journal literature in almost all languages is well represented. The book collection is especially noteworthy in the ophthalmological section due in large measure to many gifts from the late Dr. Casey A. Wood.

The Library is for members of the teaching staff and students of the Faculty of the whole University, and for research workers and doctors in the city. An extensive interlibrary loan service throughout the country is maintained. Books and journals are sent to doctors who are not near a library on payment of postage charges.

The Library is open during the academic session from Monday to Friday, 9 a.m. to 10 p.m.; Saturday 9 a.m. to 5 p.m. After June 15th the hours are 9 a.m. to 5 p.m. Monday to Friday, closed Saturday.

There are also small collections of books and journals located in several of the Departments of the Faculty.

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This special library of the history of medicine and science, collected by Sir William Osler with a view to its educational value, was bequeathed by him to his Alma Mater. The Osler Library, which comprises nearly 12,500 volumes, occupies a large room, beautifully equipped, on the fourth floor, convenient to the Medical Library. The collection is rich in early editions of the older literature, as well as in modern historical works, and its importance and usefulness are much enhanced by the donor's annotated catalogue. Planned and prepared by Osler along very unusual lines, the catalogue was completed, indexed, and printed after his death (Bibliotheca Osleriana, Clarendon Press, Oxford, 1929, xxxvi, 785 pp.).

The books are classified in eight sections, of which the first, the "Bibliotheca Prima," presents a bibliographical outline of the evolution of science (including medicine), and was planned to contain the essential literature arranged chronologically under the names of the greatest contributors to the advancement of knowledge. Another feature of the Library is its Incunabula, a valuable collection of 150 books printed in the fifteenth century. Recently the Wellcome Trust has given generous annual grants for the purchase of expensive books to fill gaps in the Osler collection.

The Osler Library is open daily, except Sunday, for the use of undergraduates and all who are interested. The Librarian will be glad to give advice or informal instruction to students. Accommodation is provided for readers. The books belonging to the original collection may not be borrowed or removed from the Library, but this restriction does not apply to the current works on the history and biography of medicine and science which are constantly being added.

MEDICAL SOCIETIES

McGILL UNDERGRADUATE MEDICAL SOCIETY

The Society is composed of the registered students of the faculty. Its purpose is:

- (1) To transact all matters of business connected with the undergraduate body;
 - (2) To stimulate interest along medical lines;
 - (3) To assist students to express themselves in public with facility;
- (4) To provide an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.

(5) To organize, during the course of the school year certain outside activities such as the annual Medical Banquet and Ball.

Monthly meetings are held at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter, and three Councillors (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

The society also maintains the Students' Reading Room. English and American journals, as well as the leading daily newspapers are kept on file.

ALPHA OMEGA ALPHA HONORARY MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate, and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the Third and Fourth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

OSLER SOCIETY

The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes men from each class in the faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.

McGill University



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Faculty of Medicine

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Library School

Institute of Education

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture, and School of Household Science)

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. Limited distribution.)

The Calendar (Available for distribution only to libraries and officials of certain institutions.)

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McGill University

FACULTY OF MEDICINE

ADMINISTRATIVE OFFICERS

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- DAVID L. THOMSON, M.A., Ph.D., D.Sc., LL.D., F.C.I.C., F.R.S.C.
 - Vice-Principal
- H. NOEL FIELDHOUSE, M.A., F.R.S.C., F.I.A.L. Vice-Principal (Academic)
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- S. M. Banfill, M.B.E., B.A., M.D., C.M.
- COLIN M. McDougall, D.S.O., B.A.
- G. A. GRIMSON, B.Com.

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RICHARD PENNINGTON, B.A., Lib.Dip.

- Assistant Dean
 - Registrar
 - Comptroller
- University Librarian

Special Announcements are available for the School of Physical and Occupational Therapy, and the School for Graduate Nurses.

A complete list of the teaching staff of the University, including the Faculty of Medicine, is printed as a separate Announcement, which may be obtained from the Registrar's Office.

Faculty of Medicine

The one hundred and thirtieth session of the Faculty will open on September 5th, 1962, for students of all years.

Students may enter the Faculty of Medicine in one of two ways. A limited number will be admitted from high school to the Double Course in Science and Medicine. Most will be admitted from college to the four-year medical course.

A. DOUBLE COURSE IN SCIENCE AND MEDICINE

REQUIREMENTS FOR ENTRANCE

Students of high calibre and first-rate academic attainment will be admitted to the First year of this programme after successfully completing Junior Matriculation. They will be enrolled directly in the Faculty of Medicine and at the same time in the Faculty of Arts and Science. In exceptional circumstances students will be admitted to the Second year of the seven-year course when they have obtained high standing in Senior Matriculation. A joint committee of the two Faculties concerned will select the successful candidates.

DESCRIPTION OF COURSE

Duration: Seven years from Junior Matriculation, six years from Senior Matriculation.

Degrees: B.Sc. (after 5 years), M.D., C.M. (after 7 years).

1st year: Chemistry, Physics, Mathematics, Biology and two electives.

2nd year: Organic Chemistry and five electives.

3rd year: Anatomy (not including Head and Neck) and three electives.

4th year: First year Medicine (omitting Anatomy) and two electives.

5th, 6th and 7th years: Last three years of standard medical curriculum.

One course in English, not necessarily a First year course, will be required at some time during the first four years.

Elective courses must be selected so as to meet the requirements for the degree of B.Sc.

APPLICATION FOR ADMISSION

It is recommended that application should be made by March 1st, 1963 to the Director of Admissions of McGill University, Montreal 2, Canada. Application forms may be obtained from the Registrar's Office or the Admissions Office.

B. FOUR-YEAR COURSE IN MEDICINE

REQUIREMENTS FOR ENTRANCE

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1. (a) Total Academic Credits:

The minimum requirement for admission to the medical course is the satisfactory completion of three full years of study in a recognized college or Faculty of Arts and Science (or the equivalent thereof).

(b) Scientific Requirements:

In the scientific branches, certain subjects are specifically required:

Chemistry, two full courses, including General Chemistry and
Organic Chemistry, with laboratory work.

Physics, one year with laboratory work.

Biology, or Zoology, one year with laboratory work. (Of this, a half year must consist of Zoology.)

(c) Cultural Requirements:

These must be selected in such a way as to be in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. These would commonly include credits in English Literature and Composition and in Mathematics. It is advisable for each applicant to present evidence of such preparation.

- (d) All candidates for admission to the Medical Faculty are required to take the Medical College Admission Test conducted by the Psychological Corporation (304 East 45th Street, New York 17, N.Y.) or furnish an explanation of why they are unable to do so. This test should be taken not later than the spring of the Third year of the college course.
- 2. In selecting courses, in addition to the specific requirements listed above, the intending medical student should plan his pre-medical course as a whole, and in accordance with a definite educational objective. Emphasis should be laid on the broad educational value and the intellectual training afforded, rather than on the factual content of such pre-medical curricula; the student is therefore advised to plan his course in such a way as to provide more than elementary training in some definite field of learning which appeals to him; this major field may be selected from the Natural or the Social Sciences or the Humanities. Certain subjects which though not essential have been found valuable in medical study, and which may be included as electives if the curriculum in the major field permits, are Psychology, Sociology, and Genetics.

In general, students are advised not to anticipate medical school courses in Physiology, Histology, Bacteriology, and Biochemistry at the expense of a fundamental training as outlined above.

On the other hand, for students who desire a preparation in excess of the minimum requirements, a considerable degree of specialization in the sciences, such as Honours graduation, or a Master's degree, in Physics, Chemistry, Biochemistry, Biology, Physiology, or Bacteriology, may prove to be desirable and advantageous.

The students' attention is called to the memorandum printed in the Announcement of the Faculty of Arts and Science, for the guidance of students who wish to enter Medicine.

Candidates for admission shall furnish evidence that they have satisfied the matriculation requirements of the Licensing Body in the region where they wish to practise. This provision applies to Canadian candidates only.

EQUIVALENT STANDING

A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official Statement of his preliminary education and of the medical course he has followed and the standing he has obtained. This should be accompanied by a calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

The equivalent courses of study in schools accepted by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the accepted school, but the student may be required to pass such examinations, individual or comprehensive, as may be required by the Faculty.

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Secretary of the Faculty or the Registrar's Office.

As the number of students in each class is limited, application should be made early and in any case not later than January 1st. Each application must be accompanied by a non-returnable fee of \$5.00 in the form of a cheque or money order payable to McGill University.

A fee of \$50.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee

will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Assistant Dean, when possible, is advisable.

REGISTRATION

Students in the Faculty of Medicine will register at the Registrar's Office in Dawson Hall on Friday, August 31st or Tuesday, September 4th, 1962. Those who register late will be required to pay a late registration fee of \$5.00 if they register during the first week of the session and \$10.00 if they register during the second. The fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

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The University reserves the right to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions described in the General Information Pamphlet.

UNIVERSITY FEES

1.	DOUBLE COURSE IN SCIENCE AND MEDICINE		
	First and Second years. Third to Seventh years.		\$475.00 \$600.00
2.	FOUR-YEAR COURSE IN MEDICINE		
	Annual fee (including Students' Society and Medical Students' Journal fees)		\$600.00
	If paid in two instalments:		
	First year only—		
	First instalment, on registration	\$300.00 2.50	
		302.50	
	Less half deposit	25.00	\$277.50
	Second instalment, January 15th		\$277.50
	Second and Third years, each instalment		\$302.50
	Fourth year, each instalment		\$305.00

- 3. REPEATING STUDENTS
 Students repeating a year pay full fees

DATES OF PAYMENT

Fees are due and payable at the Chief Accountant's Office, Dawson Hall, between the hours of 9 a.m. and 4 p.m. on the following dates.

Friday, August 31st, to Friday, September 7th, or, if desired, fees may be remitted by mail before the above dates. The second instalment of tuition fees is due and payable on January 15th. An additional \$2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the late payment fee.

Immediately after the prescribed dates for the payment of fees the Chief Accountant will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Dean will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

All fees are payable in Canadian currency.

For further information and for a list of special fees see the General Information Pamphlet included in this Announcement.

MICROSCOPES

Each student, on beginning his studies, is required to provide himself with a first-class microscope for laboratory and private study throughout his course. The microscope must be of substantial construction and be provided, as a minimum, with the following accessories: 2/3, 1/6, and 1/12 oil immersion objective, and a substage condenser. Such an instrument will last a lifetime and is an essential part of the equipment of a practitioner in medicine. Suitable microscopes may be secured through local dealers. The University does not rent microscopes to medical students.

BOARD AND RESIDENCE

For details of board and residence and an estimate of expenses, see the General Information Pamphlet included in this Announcement.

HEALTH SERVICE

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For details of the Health Service and Medical Examinations see the General Information Pamphlet included in this Announcement.

COURSES FOR THE DEGREE OF M.D., C.M.

The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including

- four years of medical study in the University leading to the degree of M.D., C.M.; and
- b. one year of interneship in an approved hospital,

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one year of further medical study in the Faculty of Medicine of McGill University or at another medical school approved by it.

While the Faculty Administration exercises a general supervision of arrangements for interneships, the Faculty of Medicine assumes no responsibility to provide an interneship for any student.

A certificate that his medical education is completed and that he is eligible to sit for the examination of a licensing board shall not be issued to any graduate until the University is in possession of satisfactory evidence that he has completed the full requirements.

There are four sessions of thirty-six weeks each exclusive of examination periods. The sessions usually begin the first Wednesday after the first Monday in September (Labour Day), and continue until the first week of June.

The academic session is divided into three terms of 12 weeks each in all sessions. The minimal period of study for the degree of M.D., C.M., is, therefore, four sessions of study comprising one hundred and forty-four weeks exclusive of examination periods.

The arrangement of the principal subjects of instruction is usually as follows:

FIRST SESSION

Anatomy (including Embryology), Histology, Physiology, Biochemistry, Child Development and Human Relations, Introduction to Medicine, General Pathology, History of Medicine.

SECOND SESSION

Central Nervous System (Anatomy, Neuroanatomy, Neurophysiology, Psychology), Medical Microbiology, Laboratory Diagnosis, Medicine, Surgery, Obstetrics, Health and Social Medicine, Pharmacology, Psychiatry, Special Pathology, Radiology, History of Medicine.

THIRD SESSION

Health and Social Medicine, Medicine, Surgery, Obstetrics and Gynaecology, Medical Jurisprudence, Neurology and Neurosurgery, Paediatrics, Psychiatry, Ophthalmology, Oto-laryngology, Radiology, Anaesthesia, Electives.

FOURTH SESSION

Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Paediatrics, Ophthalmology, Oto-laryngology, Radiology, Therapeutics.

EXAMINATIONS

The examinations taken within the Medical Faculty are divided into two groups, namely major examinations and minor examinations. Major examinations are the final examinations in Anatomy (Embryology), Histology, Physiology, Biochemistry, Pharmacology, Medical Microbiology, Special Pathology, Public Health and Preventive Medicine (Third year), Paediatrics, Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Central Nervous System.

The examinations in Medicine, Surgery, Obstetrics and Gynaecology, and Psychiatry at the conclusion of the Third Session are ranked as major examinations, even though they are not the final examinations in these subjects.

Minor examinations include the final examinations in General Pathology, Laboratory Diagnosis and examinations preliminary to the final major examinations.

A student who fails in any major examination will be required, before he sits a supplemental examination, to present to the Dean's office from the senior professor of the Department concerned a certificate that the student has taken sufficient extra tuition as would indicate that he has reviewed the subject and is a suitable candidate for the supplemental examination. There is a strict difference between the importance of a major and a minor examination. If a student fails in the supplemental of a major examination, there are definite restrictions as hereinafter set forth, while failure in the supplemental of a minor examination permits the student to carry conditions as are hereinafter laid down.

A student is not allowed supplementals in three major examinations in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student is not allowed supplementals in two major and one minor examination in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it be decided that he should retire.

A failure in the supplemental of a major examination will require the student to repeat the course (repeat the year), and no student may repeat such a course more than once. Any student who fails in the supplementals of two major examinations in any one year shall be required to retire without the privilege of further supplementals.

A student who fails in the supplementals of three or more minor examinations in any one session must repeat this session or may be asked to retire, as may be decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it be decided that he should retire.

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A student who fails in the supplementals of not more than two minor examinations may proceed with other subjects in the following year, carrying such subjects as conditions, but may not sit any subsequent major examinations until the conditions have been removed, nor may more than two conditions be carried at one time.

All conditions must be removed by the end of the first term (November) in each session when additional supplemental examinations will be held. Failure in any of these will require the student to revert to the previous year and to repeat the courses of the Winter and Spring terms.

A student in the final year may take a supplemental examination in one subject only, but must present a certificate from the senior professor of the Department concerned that he has taken extra tuition in this subject in one of the teaching hospitals of the McGill Faculty of Medicine. If he should fail in this supplemental examination, he must repeat the year of study and pass all the major examinations at the completion of the session.

A student in the final year who fails in two subjects will not be permitted supplementals but must repeat the year or retire, as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student will not be allowed to repeat a year more than once nor may he repeat a subsequent year if such repetition has been due to failure in examinations, except on special recommendation of the Promotion Committee, acting upon the motion of the representatives on the committee of the Department concerned.

A student who has been permitted to repeat his year shall be required to make a C+grade, which for this purpose is considered to be 65%, or he will not be permitted to continue his course.

Examinations, tests, reviews, etc. will ordinarily be held during the session only at the end of the twelve week terms. If is understood that such examinations, tests or reviews are conducted for the benefit of the student in order that he may have experience in the requirements of the sessional examinations, and further, that he and his teachers may know he is progressing in his studies. In the Fourth year final examinations will be held at the end of each rotation.

There shall be two Promotion Committees. The First Committee shall consist of representatives of the subjects of Anatomy, Biochemistry, Histology, Physiology, Pharmacology, Medical Microbiology and Pathology appointed by the Dean, and the Dean and the Secretary ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the First and Second years. The second Committee shall consist of representatives of the Departments of Health and Social Medicine, Medicine, Surgery, Obstetrics and Gynaecology, Paediatrics, and Psychiatry appointed by the Dean, and the Dean and the Secretary ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the Third and Fourth years.

All results of examinations will be given out by the Dean's office, after they have been passed upon by the Promotion Committee. It is an absolute rule that no examination results shall be communicated by any other channel.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent. There can be no appeal from this decision.

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At the conclusion of each course, students are graded in five groups as follows:

A = Excellent

B = Good

C = Fair

D = Doubtful

E = Failure

In reporting the grading, the names of those students who attain "A" standing are arranged in order of merit; in all other grades the arrangement is alphabetical.

By regulation of the Faculty of Medicine, a student is not permitted more than one "D" grade in the examinations of a single year. In the presence of other "D" or "E" grades all "D" grades are automatically converted into failures by the Promotion Committees.

The grade assigned to a student is based upon the results of the Final Examination, but the instructor also takes into account the record of the work done throughout the course.

The quality of the English used by a candidate is taken into account in determining his standing in all examinations.

REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

- 1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.
- 2. He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than nine months each in this University or in some other university, college or school of Medicine, approved by this University. (See page 1607.)
- No one is permitted to become a candidate for the degree who has not attended at least two full sessions at this University.
- 4. Every candidate for the degree must have passed all of the required examinations in the subjects comprising the Medical course.
- 5. He must have attended the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University and the practice of the Montreal Children's Hospital; and must have acted as clinical clerk in Medicine, Surgery, Paediatrics and Psychiatry and have fully reported upon the prescribed number of cases.

- 6. He must also have attended the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.
- 7. Every candidate must also have administered anaesthetics, under direction, at least six times, and have assisted at not less than six autopsies.

REQUIREMENTS FOR LICENCE

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each one of the United States the right of licensing is vested in a Licensing Body which has its special laws and requirements; in many cases a special standard of general education is insisted upon before *beginning* the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained.

N.B.—In order that disappointment and loss of time may be avoided, the University requires Canadian students to register with the licensing body of their home province before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtaining from the Registrars of the Provincial Medical Boards, as follows:

QUEBEC—Dr. Gerald Lasalle, 1896 Dorchester St. West, Montreal 25, P.Q.

ONTARIO-Dr. J. C. C. Dawson, 174 St. George St., Toronto 5, Ont.

New Brunswick-Dr. John R. Nugent, 112 Carlton St., Saint John, N.B.

Nova Scotia—Dr. M. R. Macdonald, Victoria General Hospital, Halifax, N.S.

PRINCE EDWARD ISLAND—Dr. R. G. Lea, 170 Fitzroy St., Charlottetown, P.E.I.

MANITOBA—Dr. M. T. Macfarland, 605 Medical Arts Building, Winnipeg, Man.

ALBERTA—Dr. W. Bramley-Moore, 207 Alexandra Block, Edmonton, Alta.

SASKATCHEWAN-Dr. G. N. Peacock, 415 Birks Bldg., Saskatoon, Sask.

British Columbia—Dr. Lynn Gunn, 1807 West 10th Avenue, Vancouver 9, B.C.

Newfoundland-Dr. C. Macpherson, P.O. Box 5121, St. John's, Nfld.

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In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, 77 Metcalfe Street, Ottawa 4, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance at lectures, practical work, and clinics are also accepted by the various examining boards in Great Britain.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

Courses of Instruction

DEPARTMENT OF ANAESTHESIA

Associate Professor R. G. B. GILBERT, Chairman

Wellcome Research Professor

J. G. ROBSON

Assistant Professors

G. F. BRINDLE
P. R. BROMAGE
W. G. CULLEN
H. T. DAVENPORT
GLADYS ELLISON
R. S. FERGUSON
E. A. FRAYWORTH
A. B. NOBLE
D. J. POWER

Lecturers

J. J. KELLY A. W. MACDONALD J. E. WYNANDS

J. B. I. SUTHERLAND

Demonstrators:

D. A. FIRTH
D. GILLIES
E. W. LARKING
W. N. C. McCLEERY
J. L. McWATT
A. N. MUNGALL
A. PETRASAK
F. A. ROBILLARD
J. K. ROSALES
C. A. SHERIDAN
F. R. H. WRIGLEY

UNDERGRADUATE COURSES

A student in Medicine, before reaching that part of the curriculum which deals with anaesthesia, will have acquired during the earlier years at the University some incomplete, but important knowledge of anaesthesia while taking courses in anatomy, physiology, biochemistry, pharmacology and pathology.

In the Third year he attends twelve lectures, illustrated by sound films, given by the chairman of the Department. The student is given advice on what to read. An examination may follow the termination of this session.

In the Fourth year a period of one week is spent in the operating room. The student is assigned to an anaesthetist each morning from 8-12 while in the afternoon from 1.30 - 2.30 he attends a didactic session concerning the procedures he has witnessed.

Also in this year the one month "Period of Election" may voluntarily be spent in the Department of Anaesthesia of one of the University hospitals. This presents opportunity for additional supervised clinical work in the operating room, the recovery room and the intensive care unit.

Textbook: R. D. Dripps et al. Introduction to Anesthesia, 2nd ed. (Saunders, 1961).

DEPARTMENT OF ANATOMY

Professors	C. P. LEBLOND, Chairman J. LANGMAN C. P. MARTIN
Associate Professors	S. M. BANFILL Y. CLERMONT
Assistant Professor	N. J. NADLER
Lecturers	E. W. WORKMAN L. HELLER L. H. S. VAN MIEROP R. T. SIMS
Hon. Lecturer	G. F. Brindle
Research Associate	M. Enesco
Teaching Fellow	D. Puddy

REQUIRED COURSES

1. GROSS ANATOMY

First year: Six hours per week during the Autumn term and nine hours per week during the Winter and Spring terms. Dissection and lectures cover the gross anatomy of the body except the Head, Neck and Brain. The course includes Embryology and Surface and Radiological Anatomy.

Second year: Nine hours per week during the Autumn term. Dissection and lectures on the Head, Neck and Brain. This course is followed by 2. Introduction to the Central Nervous System, listed below, and a combined examination is held at the end of the year.

2. INTRODUCTION TO THE CENTRAL NERVOUS SYSTEM

Six hours lecture and laboratory per week during the second term of the Second year and two hours lectures per week during the third term. Conducted with the co-operation of the Departments of Neurology and Neurosurgery, Physiology and Psychology. This course is listed under the Department of Neurology and Neurosurgery as 2A.

3. APPLIED ANATOMY

One hour per week lecture during the Autumn, Winter and Spring terms (Designed for graduate students and candidates for the Diploma in Surgery).

Textbooks: J. C. B. Grant, A Method of Anatomy, 6th ed. (Williams and Wilkins, 1958). T. B. Johnston and D. V. Davies, Gray's Anatomy, 32nd ed. (Longmans 1954) or J. C. Brash, Cunningham's Text-Book of Anatomy, 9th ed. (Oxford 1951).

Atlas: J. C. B. Grant, An Atlas of Anatomy, 4th ed. (Williams and Wilkins, 1956).

Practical Manual: J. T. Aitken et al., A Manual of Human Anatomy, 5 vols. (Livingstone 1956-58).

Surface Anatomy: A. B. Appleton et al., Surface and Radiological Anatomy, 4th, ed. (Heffer 1958).

Optional Texts: J. E. Frazer, Anatomy of the Human Skeleton by A.S. Breathnach, 5th ed. (Churchill 1958); J. C. B. Grant, A Method of Anatomy, 6th ed. (Williams and Wilkins, 1958); E. B. Jamieson, Illustrations of Regional Anatomy, 7th ed. 7 vols. (Livingstone 1947); T. B. Johnston, A Synopsis of Regional Anatomy, 8th ed. (Churchill 1957); A. Lee McGregor, Synopsis of Surgical Anatomy, 8th ed. (Wright, 1957); S. W. Ranson and S. L. Clark, Anatomy of the Nervous System, 10th ed. (Saunders 1959).

INTRODUCTION TO MEDICINE

One hour per week from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry and Physiology, in rotation.

ELECTIVE COURSES

The Department provides, as far as material will permit, facilities for advanced work or revision. The Chairman of the Department should be consulted by anyone wishing to undertake work of this nature.

4. ADVANCED NEURO-ANATOMY

Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton. The class is limited to ten. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.

MICROSCOPIC ANATOMY

REQUIRED COURSE

6. HISTOLOGY

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The study of the histological structure of the body. Two or three hours lectures and six or nine hours laboratory work per week during the first two terms of the first medical year.

Textbooks: A. W. Ham, Histology, 4th ed. (Lippincott 1961); A. A. Maximow and W. Bloom, A Textbook of Histology, 7th ed. (Saunders 1957).

Additional Reading: J. C. Finerty and E. V. Cowdry, A Textbook of Histology, 5th ed. (Lea and Febiger 1961); E. D. P. DeRobertis, W. W. Nowinski and F. A. Saez, General Cytology, 3rd ed. (Saunders 1960); R. O. Greep, Histology (Blakiston 1954); Bailey's Textbook of Histology, 14th ed., by W. M. Copenhaver and D. D. Johnson (Williams and Wilkins, 1958).

ELECTIVE COURSE

7. EXPERIMENTAL MORPHOLOGY

- (a) A seminar on biological problems-1 hour per week.
- (b) A practical course on the planning of biological experiments, laboratory animal management and operations, histological and histometrical techniques, tracing methods (Radioisotope measurement by Geiger counter and localization in tissue section by radio-autography), elements of tissue culture, embryological and immunological techniques, microphotography, statistical methods for assessing data, etc. One hour lecture and 2 hours laboratory per week.

EMBRYOLOGY

REQUIRED COURSE

8. THE STUDY OF HUMAN DEVELOPMENTAL ANATOMY

This course is integrated with 1. Gross Anatomy. Lectures and demonstra-

tions of live material and models are distributed over the First year and the first term of the Second year. Topics emphasized are: early stages of development; the cardio-vascular, respiratory, gastro-intestinal, urogenital and nervous system; and the fetal membranes.

Textbooks: L. A. Arey, Developmental Anatomy, 6th ed. (Saunders 1954); W. J. Hamilton et al., Human Embryology, 2nd ed. (Heffer 1952).

DEPARTMENT OF BACTERIOLOGY AND IMMUNOLOGY

Professor	R. W. REED, Chairman
Associate Professors	G. G. KALZ
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Assistant Professors	FRITZ BLANK
tructure of the body. Twelder	C. A. Butas
	A. M. Masson
	B. H. MATHESON
	S. I. VAS
Lecturers	D M COOKE
	M. Franklin
	S. Juhasz
	L. KAPICA
	H. WANKIEWICZ
	SNOWMIK
	H H PRICEICE
	R. Silov
Demonstrators	L. J. BUCKELS
	G. D. MICKLEA
Teaching Fellow	M. PERREAULT

All lectures and laboratory courses are given in the Department of Bacteriology, Pathological Institute.

20. MEDICAL MICROBIOLOGY

This course deals with the general principles of medical microbiology and immunology. The lectures are concerned with the anatomy and physiology of bacteria, theories of infection and immunity and a systematic study of the pathogenic bacteria, viruses and rickettsiae. The animal parasites of man (protozoa, helminths and arthropods) are considered with special emphasis on those found in North America. Laboratory work provides experience in the cultivation, isolation and identification of microorganisms and an opportunity to observe their physiological and immunological properties.

Lectures and laboratory work during the first two trimesters of the Second year.

Textbooks: Wm. Burrows, Textbook of Microbiology, 17th ed. (Saunders 1959); Ernest Jawetz et al., Review of Medical Microbiology, 4th ed. (Lange 1960); D. T. Smith and N. F. Conant, Zinsser's Bacteriology, 11th ed. (Appleton 1957); T. W. M. Cameron, The Parasites of Man in Temperate Climates, 2nd ed. (Univ. of Toronto Press, 1946).

References: R. J. Dubos, Bacterial and Mycotic Infections of Man, 3rd ed. (Lippincott 1958); Sidney Raffel, Immunity, 2nd ed. (Appleton 1961) A. J. Rhodes and C. E. Van Rooyen, Textbook of Virology, 3rd ed. (Williams and Wilkins 1958); T. M. Rivers and F. L. Horsfall, Viral and Rickettsial Infections of Man, 3rd ed. (Lippincott 1958).

- 32. SYSTEMATIC BACTERIOLOGY
- 33b. VIRUSES AND RICKETTSIAE
- 44. MICROBIAL PHYSIOLOGY AND SPECIAL TECHNIQUES
- 45. ADVANCED IMMUNOLOGY
- 46b. UNDERGRADUATE SEMINAR

OTHER COURSES

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The Department offers facilities for undergradute and graduate training.

See the announcements of the Faculty of Arts and Science and of the
Faculty of Graduate Studies and Research.

DEPARTMENT OF BIOCHEMISTRY

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K. A. C. Elliott, Chairman

O. F. DENSTEDT

J. H. QUASTEL D. L. THOMSON

Associate Professors

M. Saffran P. G. Scholefield S. Solomon

Assistant Professors

ESAU HOSEIN
ROSE M. JOHNSTONE
D. RUBINSTEIN
C. C. SOLOMONS

FIRST YEAR

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BIOCHEMISTRY-PHYSIOLOGY 1. Mon. to Fri., at 9 a.m.

BIOCHEMISTRY-PHYSIOLOGY 1L.

Laboratory: six hours a week.

Professor Rubinstein and Staff

BIOCHEMISTRY-PHYSIOLOGY 1D. Demonstrations and tutorials.

1 hour per week.

This is an integrated course of lectures, tutorials, demonstrations and laboratory work given jointly by the two departments.

INTRODUCTION TO MEDICINE

One hour per week from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry, and Physiology, in rotation.

THIRD YEAR ELECTIVE

3E. RESEARCH IN BIOCHEMISTRY AND PHYSIOLOGY. A limited number of students may take Biochemistry or Physiology as their elective subject in the Third year. These students will be given the opportunity to participate in departmental research projects.

OPTIONAL ADDITIONAL COURSES

For students who are interested in additional studies in Biochemistry the following courses are recommended:

45. METABOLISM. The nature of biological oxidations and reductions and the enzymes concerned therewith, especially from the point of view of transfer of energy; the intermediary metabolism of organic foodstuffs; the hormonal control of metabolism.

First term: 2 hours

Second term: 3 hours

Staff

51-52. SPECIALTIES AND RECENT ADVANCES IN BIOCHEMISTRY. In this course groups of lectures will outline special fields of Biochemistry in which advances have been rapid. The content of the course will change from year to year.

One hour.

Staff

This course is open only to students who have previously taken advanced courses in Biochemistry.

DEPARTMENT OF HEALTH AND SOCIAL MEDICINE

Strathcona Professor Associate Professors R. P. VIVIAN, Chairman
D. S. FLEMING
C. W. MACMILLAN
MARGARET E. NIX

Assistant Professor

MARIAN BAIN

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D. BEWS H. E. Burke F. M. Jones MILTON G. TOWNSEND FREDERICK WIENER

Demonstrators EDITH M. MANKIEWICZ M. A. HICKEY

The Department provides three courses for undergraduates in the Faculty of Medicine-Public Health and Preventive Medicine, Medical Ethics and Jurisprudence, and Medical Statistics.

The course in Medical Statistics is given in the autumn term of the First year and consists of 12 one hour lectures. The course deals with statistical methods and techniques most frequently used in medical work.

The course in Public Health and Preventive Medicine is begun in the autumn term of the Second year and contains, for each student, 24 lectures of 1 hour each and 9 demonstrations or field trips of 21/2 hours each, a total time of 461/2 hours.

The lectures deal with Epidemiology as a medical science and with the application of epidemiological principles to the study of disease causation and behaviour. Special emphasis is placed upon the influence of the environment upon health. Nutrition is also dealt with as a problem of ecology. Vital Statistics deals with census and estimated populations, registration, definition and computation of rates.

Industrial Toxicology. Four lectures on (a) dusts, fumes, smokes, mists, fogs and vapours (b) metal fume fever (c) arsenic, lead and mercury (d) carbon monoxide (e) organic compounds—aliphatic and aromatic hydrocarbons-halogenated, nitro, and amino derivatives (f) organic solvents (g) factors influencing selection of employees (h) early diagnosis of industrial poisoning.

Field trips and demonstrations pertinent to the lecture material are arranged which include visits to a water plant, a provincial laboratory, the Institute of Microbiology and the Royal Edward Laurentian Hospital; and discussion periods on Public Health Practice and Vital Statistics.

A minor examination is held at the end of the Second year.

The second part of the course in Public Health and Preventive Medicine is given in the Third year. This part contains 12 lectures given to the class as a whole at weekly intervals during the autumn term and 12 afternoon sessions of 2½ hours each, in each of the three week concentration periods provided in the curriculum. The total time for each student in the Third year is 42 hours.

The lectures present the epidemiological approach to the control of communicable diseases and the prevention of degenerative diseases and other disabilities. They are designed to introduce the work of the concentration periods as well as to deal with entities for which no concentration period is provided.

The concentration periods are designed to provide an outline of the organization and activities of public health services in Canada and the operation of local or municipal public health programs, together with didactic material on the etiology, epidemiology and control of specific infectious diseases with demonstration and practice in the use of immunizing agents. The concentration periods also contain the presentation of didactic material on health supervision policies for particular groups in the community with demonstration and discussion.

A final examination is held at the end of the Third year.

Text and Reference Books: M. J. Rosenau, Preventive Medicine and Public Health, ed. by K. F. Maxcy, 8th ed. (Appleton 1956); H. S. Mustard and E. L. Stebbins, Introduction to Public Health, 4th ed. (Macmillan, New York, 1959); H. R. Leavell and E. G. Clark, Preventive Medicine for the Doctor in his Community, 2nd ed. (McGraw-Hill 1958).

MEDICAL ETHICS AND JURISPRUDENCE

The course in Medical Ethics and Jurisprudence consists of some 12 lectures, given to the class as a whole, in the spring term of the Second year.

Twelve lectures on (a) legal status of physicians (b) obligation of the doctor to the state (c) professional secrecy—privileged communications (d) responsibility to the patient—implied and expressed contracts (e) physical examinations, surgical operations and consent (f) malpractice—civil, criminal (g) legal procedures—coroner's court, other courts, medical witness (h) medico-legal aspects of death (i) personal identity in its medico-legal bearing (j) blood stains (k) wounds (l) pregnancy (m) abortion (n) infanticide (o) impotency and sterility (p) rape (q) medico-legal aspects of alcoholic intoxication (r) insanity.

Texts and Reference Books: i. General: R. J. M. Buchanan, Textbook of Forensic Medicine and Toxicology, 9th ed. (Livingstone 1925); John Glaister, Medical Jurisprudence and Toxicology, 10th ed. (Williams and Wilkins 1957); T. A. Gonzales et al., Legal Medicine, 2nd ed. (Appleton 1954), D. J. A. Kerr, Forensic Medicine, 6th ed. (Black 1957); H. H. Littlejohn, Forensic Medicine (Churchill 1925); R. H. Long, The Physician and the Law, 2nd ed. (Appleton 1959); W. D. McNally, Toxicology,

Chic., (Indus. Medicine 1937); Sydney Smith and F. S. Fiddes, Forensic Medicine, 10th ed. (Churchill 1955); Sydney Smith and John Glaister, Recent Advances in Forensic Medicine, 2nd ed. (Churchill 1939); A. S. Taylor, Principles and Practice of Medical Jurisprudence, ed. by Sydney Smith, 11th ed., 2 vols. (Churchill 1956-57).

ii. Industrial Toxicology: Ethel Browning, Toxicity of Industrial Organic Solvents, 2nd ed. (H.M.S.O. 1953) (G.B. Med. Res. Counc. Indus. Health Res. Bd. Rept. no. 80); Yandell Henderson and H. W. Haggard, Noxious gases, 2nd ed. (Reinhold 1943); Donald Hunter, Industrial Toxicology (Oxford 1944).

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Professor

LLOYD G. STEVENSON

REQUIRED COURSES

1. INTRODUCTORY COURSE (First year)

A series of 12 lectures given during the first month of the medical course to provide an historical orientation to the student entering upon the study of medicine.

2. HISTORY OF MEDICINE (Second year).

A series of 12 lectures providing a survey of the history of relationships between medicine and general culture, with reference to economics, politics, philosophy and religion.

DEPARTMENT OF INVESTIGATIVE MEDICINE

Professor Associate Professor Assistant Professor Research Associate Honorary Lecturer Lecturers J. S. L. Browne, Chairman
C. J.-P. GIROUD
N. KALANT
S. SOLOMON
J. GENEST
IVAN BECK
C. I. CHAPPEL
R. SCHUCHER

R. WOLFE

The Department offers courses leading to the degrees of M.Sc. and Ph.D. in the Faculty of Graduate Studies and Research and provides research facilities for these students or for other persons proceeding to graduate

degrees, diplomas or for other qualified individuals. The Department is also prepared to make arrangements to offer elective courses for Medical undergraduate students.

The courses and the direction of research in this department are given in close collaboration with the Department of Experimental Medicine and members of either department give lectures and direct the research of graduate students registered in the other.

Students may work either in the Medical Building or in one of a number of hospitals depending on the type of work done (clinical or laboratory) or upon the individual directing the research. Part of the function of the department is the correlation of clinical investigation being done at various hospitals.

Students holding either the M.D. or B.Sc. degree or its equivalent may enter the department provided that their standing is acceptable. For the list of courses and further details see the Calendar of the Faculty of Graduate Studies and Research.

RONALD V. CHRISTIE. Chairman

DEPARTMENT OF MEDICINE

Professors

1 10/03013	RONALD V. CHRISTIE, CHAITMAN
	D. G. CAMERON
Associate Professors:	
D. V. BATES	M.M. HOFFMAN
J. C. Beck	J. G. HOWLETT
E. H. BENSLEY	A. L. Johnson
G. A. COPPING	Louis Lowenstein
NEIL FEENEY	M. McGregor
R. R. Forsey	H. S. MITCHELL
C. W. FULLERTON	BRAM ROSE
G. W. HALPENNY	S. R. TOWNSEND
W. H. P. HILL	
Assistant Professors:	
L. J. Adams	LESTER McCallum
R. C. Bennetts	E. E. McGarry
F. M. BOURNE	R. D. McKenna
H. E. BURKE	J. M. McKenzie
G. E. CRAIG	K. R. MACKENZIE
A. F. FOWLER	C. J. PATTEE
L. G. Johnson	E. A. S. REID

F. KALZ P. B. STEWART J. F. Meakins I. G. MILNE F. M. SMITH

А. Т. Тном B. D. USHER

Lecturers:

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M. Aronovitch C. C. Macdonald A. Gold Alec Gordon C. H. HOLLENBERG A. KNIGHT A. D. MACDONALD

C. M. BALLEM D. J. MACINTOSH C. S. Barker J. R. Martin R. G. Baxter A. Miller J. O. W. Brabander M. Notkin J. L. Brandt J. A. P. Pare S. Brown
R. E. G. Place
Lauder Brunton
J. S. Polson LLOYD CASWELL T. L. QUINTIN R. A. CLEGHORN PAULA SCHOPFLOCHER WILLIAM COHEN J. A. SHANKS J. H. DARRAGH LORNE SHAPIRO
N. K. DELEEUW K. A. SOWDEN P. A. EDWARDS C. H. STACEY MURRAY STALKER R. L. STANFORD R. G. M. HARBERT DAVID STUBINGTON P. P. TELNER P. G. WEIL A. W. LAPIN

W. LEITH

G. E. WIGHT

D. H. WOODHOUSE B. A. LEVITAN W. A. YOUNG

Demonstrators:

Eva Arendt J. R. ALBERT A. Aronoff DAVID BARZA I. T. BECK T. A. Brown W. K. Macdonald PARKER CHESNEY D. G. MACKAY M. S. COHEN D. M. MARCUS B. A. COOPER BERNARD POLLAK S. R. COOPER S. L. RICHARDSON

D. G. KINNEAR L. J. KORENBERG M. KUNSTLER L. Kovacs W. A. R. LAING R. F. P. Cronin Jack E. Rubin

S. EIDINGER	A. SHULMAN
C. M. FLINT	P. Sommerfreund
P. A. FLINT	K. R. STEWART
S. O. FREEDMAN	T. J. SULLIVAN
	E. A. TURCOT
J. L. HUTCHISON	J. WENER
G. E. JORON	D. WISELBERG
M. KAYE	J. C. G. Young
A. G. KENDALL	W. C. M. Barrens or an

EXPERIMENTAL MEDICINE

Professor	ELEANOR H. VENNING
Associate Professor	SAMUEL SOLOMON
Assistant Professors	MARGARET R. BECKLAKE
	RONALD HOBKIRK
	MAXWELL RICHTER
	DAVID RUBINSTEIN

N.B. See Announcement of the Faculty of Graduate Studies and Research.

THE CURRICULUM IN THE DEPARTMENT OF MEDICINE FOREWORD

The object of the following courses is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease, to afford a knowledge of the technique, and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students, teachers, and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy, and biochemistry with clinical medicine is emphasized—not only in the pre-clinical years, but later in hospital and laboratory—thus affording students a modern scientific medical training. The importance of regarding the patient as a person is emphasized throughout.

Unusual facilities are afforded at the Royal Victoria Hospital and at the Montreal General Hospital where there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

REQUIRED COURSES

SECOND YEAR

COURSE II 1—INTEGRATION OF PHYSIOLOGY, BIOCHEMISTRY AND ANATOMY WITH MEDICINE

Time-Last term of Second year: three lectures a week.

Place-Medical Building.

Subject Material—This course covers in a systematic manner the deviations from the normal of the physiological and biochemical functions. These are correlated so as to explain symptoms and signs which may be found on physical examination as detected by clinical methods dealt with in Course II 2. This course is so interpreted as to give the student a panoramic view of these disturbances with a proper perspective.

COURSE II 2-A PRACTICAL COURSE IN CLINICAL METHODS

Time-Third term of Second year.

Place—Outpatient Departments of the Royal Victoria, Montreal General, and Queen Mary Veterans Hospitals.

Subject—Practical instruction 6 hours a week on Normal and Abnormal Physical Signs.

COURSE II 3—LABORATORY DIAGNOSIS

Time—Last term of Second year.

Place-Medical Building.

Subject—Instruction and practice 2 periods a week in microscopy as applied to clinical medicine.

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COURSE III 4—CASE REPORTING

During the trimester in Medicine students will be assigned patients in the wards. They will be required to write case histories, make a general examination, note progress, and do such laboratory investigations as are within their scope and have access to all other Laboratory and X-Ray findings. Teaching Fellows will be available to assist students

in this work. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

COURSE III 5—CLINICO-PATHOLOGICAL CONFERENCE

Time-Weekly during the medical term.

Place—The Royal Victoria and the Montreal General Hospitals.

COURSE III 6—Integration of Physiology, Biochemistry and Anatomy with Medicine—a continuation of course II. One lecture a week for 2 terms, two lectures a week for the third term.

COURSE III 7—THERAPEUTICS

A course of 20 lectures on the principles of therapeutics and on the treatment of various diseases for which clinical material is not readily available.

FOURTH YEAR

COURSE IV 8-CASE REPORTING

An effort is made to enable the student in the Fourth year to take an active part in the care of the patient, both in the wards and in the Out-door Clinics. One month will be spent on the wards and one month in the "Comprehensive Clinic" of the outpatient department. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

COURSE IV 9-CLINICAL PATHOLOGICAL CONFERENCE

Time—Once a week during the medical term.

Place—The Royal Victoria and the Montreal General Hospitals.

TEXT AND REFERENCE BOOKS

The following books have been classified under general headings and are merely suggestions from which the student may choose according to his own needs. The list is not intended to be exclusive; there are other text books which the student may prefer. The list of reference books is given for information.

Clinical and Laboratory Methods and Physical Diagnosis: R. C. Cabot and F. D. Adams, Physical Diagnosis, 13th ed. (Wood 1942); R., B. H. Gradwohl, Clinical Laboratory Methods and Diagnosis, 5th ed. 2 vols.

(Mosby 1956); Page Lot, ed., A. Syllabus of Laboratory Examination in Clinical Diagnosis (Harvard Univ. Pr. 2nd ed. 1960); Hutchison's Clinical Methods by Donald Hunter and R. R. Bomford, 13th ed. (Cassell 1956); S. S. Leopold, The Principles and Methods of Physical Diagnosis, 2nd ed. (Saunders 1957); McGill University, Dept. of Medicine, Guide to Medical Case Reporting, 3rd ed., 1950; R. H. Major and M. H. Delp, Physical Diagnosis, 5th ed. (Saunders 1956); J. C. Todd et al., Clinical Diagnosis by Laboratory Methods, 12th ed. (Saunders 1953); Harry Walker, Physical Diagnosis (Mosby 1952).

Physio-Pathology: C. H. Best and N. B. Taylor, The Physiological Basis of Medical Practice, 7th ed. (Williams and Wilkins 1961); Meyer Bodansky and Oscar Bodansky, Biochemistry of Disease, 2nd ed. N.Y. (Macmillan 1952); Abraham Cantarow and Max Trumper, Clinical Biochemistry, 5th ed. (Saunders 1955); C. H. Gray, Clinical Chemical Pathology (Williams and Wilkins 2nd ed. 1959); J. P. Peters and D. D. Van Slyke, Quantitative Clinical Chemistry, vol. 1: Interpretations, 2nd ed. (Williams and Wilkins 1946); W. A. Sodeman, Pathologic Physiology, 3rd ed. (Saunders 1961); Samson Wright, Applied Physiology, 10th ed. (Oxford 1961).

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General Medicine: R. L. Cecil and R. F. Loeb, Textbook of Medicine, 10th ed. (Saunders 1959); J. J. Conybeare and W. N. Mann, Textbook of Medicine, 12th ed. (Livingstone 1957); L. S. P. Davidson, Principles and Practice of Medicine, 5th ed. (Livingstone 1960); T. R. Harrison, Principles of Internal Medicine, 3rd ed. (Blakiston, 1958); J. C. Meakins, Practice of Medicine, 6th ed. (Mosby 1956); W. M. Yater, Fundamentals of Internal Medicine, 4th ed. (Appleton 1954).

Differential Diagnosis: W. M. Barton and W. M. Yater, Symptom Diagnosis, 4th ed. (Appleton 1942); T. D. Savill, System of Clinical Medicine, 12th ed. (Williams and Wilkins 1944).

Dermatology: R. W. MacKenna, Diseases of the Skin by R. M. B. MacKenna, 5th ed. (Bailliere 1952); Norman Tobias, Essentials of Dermatology, 5th ed. (Lippincott 1956); Norman Walker and G. H. Percival, Introduction to Dermatology, 12th ed. (Livingstone 1956).

Miscellaneous Reference Books: G. G. Duncan, Diseases of Metabolism, 4th ed. (Saunders, 1959); C. K. Friedberg, Diseases of the Heart, 2nd ed. (Saunders 1956); E. P. Joslin, Diabetic Manual for the Doctor and Patient, 10th ed. (Lea and Febiger 1959); J. S. McLester and W. J. Darby, Nutrition and Diet in Health and Disease, 7th ed. (Saunders 1958); O. S. Ormsby and Hamilton Montgomery, Diseases of the Skin, 8th ed. (Lea and Febiger 1954); E. H. Rubin, Diseases of the Chest (Saunders 1947); Samuel Soskin, Progress in Clinical Endocrinology (Grune 1950); R. L. Sutton and R. L. Sutton, Diseases of the Skin, 11th ed. (Mosby 1956); H. B. Taussig, Congenital Malformations of the Heart, 2nd ed. (Oxford 1961); L. E. H. Whitby and C. J. C. Britton, Disorders of the Blood, 8th ed. (Churchill, 1957); M. M. Wintrobe, Clinical Hematology, 5th ed. (Lea and Febiger 1961).

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

Chairman and Professor of Neurology and Neurosurgery

THEODORE RASMUSSEN

Professor of Neurology Professor of Neurosurgery Professor of Experimental Neurology Professor (Biochemistry) and Director Donner Laboratory of Neurochemistry Associate Professor of Neurology Associate Professor of Neurosurgery Associate Professor of Neurological Radiology Assistant Professors of Neurology

Assistant Professor of Neuropathology Assistant Professors of Neurosurgery

Assistant Professor of Experimental Neurology Assistant Professor of Neurochemistry Assistant Professor of Clinical Psychology Lecturers in Neurology

Lecturers in Neurosurgery

Lecturer in Experimental Neurology Demonstrators in Neurology

Demonstrators in Neurosurgery

Demonstrator in Electroencephalography Research Associates

Research Assistants

FRANCIS McNaughton WILLIAM FEINDEL HERBERT JASPER

K. A. C. ELLIOTT PRESTON ROBB ARTHUR ELVIDGE DONALD MCRAE I. B. R. COSGROVE D. L. LLOYD-SMITH REUBEN RABINOVITCH W. F. T. TATLOW P. K. THOMAS GORDON MATHIESON HAROLD ELLIOTT GILLES BERTRAND PIERRE GLOOR LEONHARD WOLFE BRENDA MILNER BERNARD GRAHAM IRVING HELLER D. E. HOWELL JOHN BLUNDELL CHARLES BRANCH PHANOR PEROT HANNA PAPPIUS J. C. JACOB IOSEPH KEITH ALLAN MORTON ALLAN SHERWIN DAVID WEINSTERN JAN GYBELS Rosario Musella **IEWELL OSTERHOLM** LEWIS HENDERSON CATHERINE MACPHERSON KENNETH REID NICHOLAS RUMIN

Fellows of the Montreal Neurological Institute:

KRISHAN AHUJA DIWAN BHATHAL BARTOLO BARONE VIJAY DAVE LLOYD DAYES PATRICE DROUIN GARTH EMBREE MILAN FELT HENRY GARRETSON NORMAND GIARD RAYMOND GIGUÈRE ANDRZEJ GLUSZCZ DANIEL GONZALEZ MANOUCHER GUERAMY DES RAJ GULATI JAN GYBELS ROBERT HERNDON MARIUS HEUFF J. C. JACOB ORHAN KALABAY

GEORGE KARPATI JOSEPH KEITH ISRAEL LIBMAN FALAH MAROUN MORIO MATSUNIAGA ROSARIO MUSELLA ROBERT McPHEDRAN JEWELL OSTERHOLM DANIEL POLLEN FERNAND POIRIER POLIZOES POLIZOS FOSTER REDDING YAVUZ RENDA MARC ST. HILAIRE ALLAN SHERWIN JEAN SIEGFRIED ORLANDO SOLIS-QUIROGA MATTHEW SPENCE COSTAS STEFANIS DAVID WEINSTEIN

SECOND YEAR

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2A INTRODUCTION TO THE CENTRAL NERVOUS SYSTEM. Combined course given by the Departments of Anatomy, Neurology and Neurosurgery, Physiology and Psychology. Two hours lecture, three hours laboratory and one hour demonstration per week, during the second term and two hours lecture per week during the third term.

Professors McNaughton, Jasper, Burns and Hebb

- 2B INSTRUCTION IN CLINICAL EXAMINATION OF THE NERVOUS SYSTEM. Given in conjunction with the Department of Medicine in the third term.
- 2C NEUROPATHOLOGY. Given in conjunction with the Department of Pathology in the third term.

 Professor Mathieson
- 2D APPLIED PHYSIOLOGY (Department of Medicine). Six lectures.

Professors Rasmussen, McNaughton and Staff

THIRD YEAR

3A CLERKSHIP IN NEUROLOGY AND NEUROSURGERY. Four afternoons per week for three weeks, at the Montreal Neurological Institute.

Professors Rasmussen, McNaughton and Staff

3B SURVEY LECTURES, DISEASES OF THE NERVOUS SYSTEM. 12 lectures given during the first term. Professors Rasmussen, McNaughton and Staff

3C CLINICS AND CONFERENCES IN CONJUNCTION WITH THE DEPARTMENTS OF MEDICINE AND SURGERY.

FOURTH YEAR

CLINICS AND CONFERENCES IN CONJUNCTION WITH THE DEPARTMENTS OF MEDICINE AND SURGERY.

ELECTIVE COURSES

- A. SEMINAR IN NEUROANATOMY, M.N.I.
 - 1. This course is given in combination with course 2A "Introduction to the Central Nervous System."
 - 2. Additional graduate seminars will be held co-ordinated with Course B.
 - 3. Graduate students are expected to act as demonstrators and to pass the same examination which is given in undergraduate course 2A, but with higher standing.

 Professor McNaughton
 - 4. Advanced Neuroanatomy for selected group; times to be arranged.

 Professor McNaughton
- B. SEMINAR IN NEUROPHYSIOLOGY.
 - 1. Lectures and examination together with undergraduate course 2A "Introduction to the Central Nervous System".
 - 2. Weekly seminars and demonstrations co-ordinated with Course A-2 (4 months, beginning in December). Mondays, 4:30 to 6:00 p.m.
 - 3. Under exceptional circumstances, a paper on a neuro-physiological subject may be written by special arrangement as a substitute for B-1.

Professors Jasper, Elliott and Gloor

- C. COLLOQUIUM IN CLINICAL NEUROLOGY.
 - 1 hour weekly, clinics and lectures, Wednesdays, 5:00 p.m. M.N.I. (9 months). Staff and Visiting Lecturers
- D. SEIZURE MECHANISMS AND CEREBRAL LOCALIZATION: CLINICAL ELECTRO-ENCEPHALOGRAPHIC, AND ROENTGENOGRAPHIC CONFERENCE.
 - M.N.I. 1½ hours weekly (9 months). Tuesdays, 4:00 to 5:30 p.m.

 Professors Rasmussen, Jasper, McNaughton and McRae
- E. OUTLINE OF NEUROCHEMISTRY
 Instruction in neurochemistry in addition to that provided in course
 B-2 may be obtained by special arrangement.

 Professor Elliott
- F. NEUROPATHOLOGY.
 - 1. Six months laboratory work in neuropathology.

Professors Mathieson and Bertrand

2. Conference in neuropathology, Thursday 4-5 p.m.

Professors Mathieson and Bertrand

Introduction to Histopathology of the Nervous System.
 A short basic course for a limited number. By special arrangement with Professor Mathieson.

For graduate credit, courses Nos. 1 and 2 are required. Under special circumstances written and/or oral examinations may be substituted for Nos. 1 and 2 for students who have taken course No. 3.

G. NEUROLOGICAL RADIOLOGY.

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- 1. Lecture demonstrations (3 months beginning in September). Mondays 4:30 to 6:00 p.m.
- 2. Colloquium, 1 hour weekly (9 months) Mondays, 9:00 a.m.

 Professor McRae

DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

KIMENI OF OBSTETRICS	AND GYNAECOLOGY
D. of	G. B. MAUGHAN, Chairman
Associate Professors	W. R. FOOTE
	J. P. A. LATOUR
	K. T. MACFARLANE
Assistant Professors	
12001510111 1 10JESS07S	J. L. MACARTHUR
	T. PRIMROSE
	D. W. SPARLING F. J. TWEEDIE
Lecturers	1. J. I WEEDIE
P. R. BLAHEY	E. A. MACCALLUM
H. B. BOURNE	H. Oxorn
GRACE DONNELLY SIMON GOLD	J. H. ROUTLEDGE
M. HENDELMAN	M. H. V. Young
Demonstrators	
G. H. ARRONET	D 34 D
J. R. Dodds	R. M. Parsons J. Portnuff
J. S. HENRY, JR.	P. C. TREMBLAY
C. C. LINDSAY	
Teaching and Administrative Ass.	istants

The course is designed to impart a fundamental knowledge of the processes of human parturition, gynaecology and the care of the New-born. The student is introduced to the subject in his Second year. Thereafter in both his Third and Fourth years, intensive teaching is carried out using to the full the facilities of the Royal Victoria Montreal Maternity Hospital and to a lesser extent the gynaecological wards of the Montreal General

W. D. FRASER

Hospital. The Royal Victoria Montreal Maternity Hospital is the largest teaching unit of its kind in Canada and the clinical material to be found in its wards is unsurpassed.

REQUIRED COURSES

SECOND YEAR-

An introductory course of twelve lectures is given by Professor Maughan during the last term. Following a review of the embryology and anatomy of the female genital tract the particular biochemical and endocrine aspects of the subject are taken up. The course closes with a description of the physiology of pregnancy and labour. Lectures are held in the Medical Building, McGill University.

THIRD YEAR-

OBSTETRICS

During this year, twenty-eight lectures are given to teach the fundamentals of pregnancy, labour and the puerperium by the members of the Royal Victoria Montreal Maternity Hospital Staff. Following this series the Montreal General Hospital Staff conduct five lecture classes as an introduction to gynaecology. Medical Building, McGill University.

An intensive six weeks of instruction in obstetrics is given each group of students during the academic year by the Staff of the Royal Victoria Montreal Maternity Hospital. Student groups are further divided into smaller tutorial units so that individual students can be given the greatest opportunity to take part in the practical work of the class.

Eighteen hours are devoted to Manikin Instruction. Physical diagnosis at the bedside and Clinical Management in the wards and case rooms are allocated six hours each.

Professor Maughan conducts six seminars on the Principles and Theory of Obstetrics and a further six hours are taken up by the members of the Staff in reviewing current work in the subject.

Six hours of gynaecological colloquia are given by a senior member of the Royal Victoria Montreal Maternity Hospital Staff to augment the gynaecological teaching noted below.

Students are also required to attend Departmental Ward Rounds in the Royal Victoria Montreal Maternity Hospital when interesting cases are discussed and lectures given on the latest advances in the field.

Six classes are given by Doctor G. Nickerson, Paediatrician-in-Chief of the Royal Victoria Hospital and his Staff to introduce the student to the care of the new-born.

GYNAECOLOGY

Two mornings weekly throughout the six weeks are devoted to the teaching of gynaecology at the Montreal General Hospital. Each teaching day is divided into three parts—(1) student participation groups or outdoor clinic instruction groups, (2) clinical teaching, and (3) didactic lectures. The student participation groups comprise nine periods devoted to the preparation and presentation of an allotted subject from the standard textbooks and current literature, supervised by a member of the teaching staff. The outdoor clinic instruction groups, with two or three students at a time, are intended to teach the techniques and details of gynaecologic examination with an introduction to commonly encountered gynaecologic problems at first hand. The clinical teaching consists of ward rounds, clinical pathological conferences, and the demonstration of minor gynaecologic operative procedures. The didactic lectures cover twelve major topics in gynaecology.

Professor MacFarlane and Assistants, Montreal General Hospital.

FOURTH YEAR-

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No formal lectures are given during the intensive four week course in obstetrics and gynaecology which is held entirely in the Royal Victoria Montreal Maternity Hospital. Students are coached in small groups and will live in the hospital for at least nine days. While living in, they are expected to participate in the work of the delivery rooms and wards. Written case reports are required and the student's progress is assessed partly on the care taken in the recording of the assigned cases and their follow-up. Teaching is divided between obstetrics and gynaecology using the facilities of the indoor and outdoor departments.

An eight hour refresher course in Manikin is given.

Professor Maughan conducts group hospital rounds once a week.

Twenty-four hours are devoted to bedside clinics on antepartum and portpartum management of the obstetrical patient with particular emphasis on the recognition and treatment of complications.

Eight hours of revision seminars.

Doctor Primrose

Sixteen hours are devoted to the discussion of problems presented by the students. R.V.M.M.H. Staff

Attendance at Outdoor clinics four afternoons a week is compulsory. Minor gynaecology and antepartum care are taught by the Staff members in charge of the cases. Students are also required to be present at Departmental Staff rounds each Wednesday morning during term.

Twelve bedside clinics are given in gynaecology by members of the Staff.

Eight lecture-demonstrations in Gynaecological Pathology are given by Doctor Latour and assistants who are also responsible for four hours of clinical instruction on the diagnosis and treatment of genital cancer.

Clinical Endocrinology is reviewed in four sessions of one hour.

Doctor Nickerson and Staff offer four lectures on New-born Paediatrics together with eight demonstrations in the nurseries.

Obstetrics textbooks: R. W. Johnstone and R. J. Kellar, Textbook of Midwifery, 18th ed. (Black 1961); N. J. Eastman, Williams' Obstetrics, 12th ed. (Appleton 1961).

Gynaecological textbooks: F. W. Roques, Diseases of Women, 10th ed. (Arnold 1959).

DEPARTMENT OF OPHTHALMOLOGY

Professor
Associate Professors

Assistant Professor
Lecturers

Demonstrators

JOHN C. LOCKE, Chairman
BENJAMIN ALEXANDER
J. V. V. NICHOLLS
R. J. VIGER
S. T. ADAMS
R. A. BOURNE
L. S. S. KIRSCHBERG
SEAN B. MURPHY
WILLIAM TURNBULL
J. B. CONROY

J. B. Conroy
Hugh Duncan
J. G. Little
R. W. Pearman
R. B. Ramsey
P. Rosenbaum

The undergraduate work in Ophthalmology is designed to meet the needs of a well-trained general practitioner and embraces the following courses in the Second, Third and Fourth years of the Medical course:

SECOND YEAR

1. ROUTINE EXAMINATION OF THE EYE.

The various tests used in routine examination of the eye are demonstrated. Instruction in the use of the ophthalmoscope is emphasized. Five hours.

2. PATHOLOGY OF THE EYE.

Six hours: two periods of three hours each.

THIRD YEAR

1. LECTURES TO THE ENTIRE CLASS.

These provide a survey of the entire field and are designed to furnish a background of essential information for the clinical work.

Twelve hours.

2. PRACTICAL OPHTHALMOSCOPY.

Montreal General and Royal Victoria Hospitals. Nine hours.

3. ELECTIVE COURSE IN OPHTHALMOLOGY.

This four-week course is given three times during the latter half of the Third year. The number of students in any four-week period is limited to two. Most of the time is spent at the Montreal General and Royal Victoria Hospitals. Teaching in Paediatric Ophthalmology is divided between the Royal Victoria and Montreal Children's Hospitals. A varied and intensive program of practical and didactic instruction is provided.

The classes include attendance at general and special clinics, at ward rounds and seminars, and at formal demonstrations and tutorials. Scheduled periods in the eye operating room provide the opportunity to observe the more common operative procedures. The students are assisted in the preparation of an assigned topic which requires them to consult current ophthalmic literature. Instruction in specialized methods of examination of the eye is provided. Emphasis is placed on the participation of the eye in systemic diseases and on eye diseases which the general practitioner will be called upon to treat.

FOURTH YEAR

1. PRACTICAL CLINICAL OPHTHALMOLOGY

Cases from the eye outpatient and indoor services are presented and discussed. Emphasis is on ocular problems that are of greatest moment in general practice.

Nine hours.

Textbooks: Francis H. Adler, Gifford's Textbook of Ophthalmology, 6th ed. (Saunders, 1957); C. A. Perera, May's Manual of the Diseases of the Eye, 22nd ed. (Williams and Wilkins, 1957).

Reference books: W. S. Duke-Elder, Textbook of Ophthalmology, 7 vols. (Mosby, 1932-54); Eugene Wolff, Anatomy of the Eye and Orbit (Blakiston, 1954); Eugene Wolff, Pathology of the Eye, 3rd ed. (Blakiston, 1951); Francis H. Adler, Physiology of the Eye, 3rd ed. (Mosby, 1959).

DEPARTMENT OF OTO-LARYNGOLOGY

Professor

Associate Professors

E. E. Scharfe
E. A. Stuart

Assistant Professors

H. E. McHugh
E. John Smith
R. Patrick Gannon

Lecturers

J. D. Baxter

Arnold Grossman
G. T. Shimo

0

Demonstrators

R. HALL McCov
R. MacMillan
W. H. Novick

Instruction in Oto-Laryngology is given to students in the Second, Third and Fourth years and is designed to meet the needs of the general practitioner. The clinical courses are conducted in the wards and out-patient departments of the Montreal General, the Royal Victoria and the Montreal Children's Hospitals. The practical demonstrations are given before small groups of students.

SECOND YEAR

A special demonstration of Ear, Nose and Throat Anatomy on living subjects is given while the students are studying Anatomy of the Head and Neck. Physical diagnosis is also taught in six demonstrations. The students review the anatomy of the ears, nose and throat and are taught to use the head mirror and the special instruments more commonly used in the examination of these parts.

THIRD YEAR

Clinical instruction in the Out-door Clinics and wards is given to small groups in "block time" consisting of consecutive mornings for one week for each group. Twelve lectures on Ear, Nose and Throat subjects are given to this class as a whole during the third term.

FOURTH YEAR

Clinical instruction is carried out in the Out-patient departments in small groups and the students are given as much personal supervision as possible. The students attend two clinics per week for eight consecutive weeks and take an active part in the examination and treatment of the patients.

ELECTIVE COURSES

The new curriculum provides for Elective Courses of one month in this specialty or in combination with Ophthalmology.

ALAN Ross, Chairman

Text and Reference Books: L. R. Boies, Fundamentals of Otolaryngology, 3rd ed. (Saunders 1959); Chevalier Jackson and C. L. Jackson, Diseases of the Nose, Throat and Ear, 2nd ed. (Saunders 1959); Logan Turner's Diseases of the Nose, Throat, and Ear, 6th ed. (Wright 1961); T. G. Wilson, Diseases of the Ear, Nose and Throat in Children (Heinemann 1955).

DEPARTMENT OF PAEDIATRICS

Professor

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Associate Professors	D. V. BATES
	R. L. DENTON
	A. L. Johnson
	E. M. WORDEN
Lecturers	H. L. BACAL
	D. K. Clogg
	J. H. ELDER
	FIEANOR HARPIIR
	D. A. HILLMAN
	G. H. NICKERSON
	J. H. O'NEILL
Honorary Lecturer	F. CLARKE FRASER
Demonstrators	
PETER AULD	DAVID KLEIN
P. BANISTER	A. J. MARKUS
P. H. BEAUDRY	Frances McCall
M. M. BELMONTE	D. R. McCrimmon
HELEN BRICKMAN	Sydney Pedvis
H. R. BRODIE	C. R. SCRIVER
J. S. CHARTERS	PIERRE SENECAL
T. A. COWAN	FREDERICK SHIPPAM

REQUIRED COURSES

S. I. DOUBILET HYMAN SURCHIN

WANDA JEGIER ISOBEL WRIGHT

VICTOR C. GOLDBLOOM

R. GOURDEAU

W. W. TIDMARSH

ROBERT USHER

A. H. FINLEY

1. LECTURES

Teaching Fellow

(a) A series of 6 lecture-demonstrations on Growth and Development in the last term of Second year.

ELIZABETH HILLMAN S. J. USHER

- (b) A series of 24 lectures once weekly during the Third year designed to cover the various aspects of Diseases of Children; Nutrition, Hygiene, Infections and Communicable Diseases, Preventive Medicine, etc. Staff
- DISEASES OF THE NEWBORN: ROYAL VICTORIA MONTREAL MATERNITY HOSPITAL
 - (a) A weekly clinic demonstration to groups of students of the Third year during their obstetrical quarter.
 - (b) A weekly lecture to groups of Fourth year students during their four weeks in Obstetrics.
 - (c) A bi-weekly demonstration in the nurseries to the group of Fourth year students in residence during their four weeks in Obstetrics.

Staff

3. CLINICAL PAEDIATRICS

- (a) Groups during the final year spend eight weeks entirely at the Montreal Children's Hospital as clinical clerks taking part in bedside clinical conferences and, under supervision, caring for patients in the outpatient department.
- (b) Normal growth and development, the care and feeding of the normal infant, immunization procedures, and preventive paediatrics are taught at the Child Health Clinic in the Montreal Children's Hospital. Staff
- (c) A series of demonstrations to groups of students on the common infectious diseases is given at the Alexandra Hospital as part of the instruction of the final year.

 Staff

Textbooks: L. E. Holt, R. McIntosh, H. L. Barnett, Holt Pediatrics, 13th ed. (Appleton-Century-Crofts Inc., 1962); W. E. Nelson, Textbook of Pediatrics, 7th ed. (Saunders 1959).

Reference Books: J. P. Caffey, Pediatric X-ray Diagnosis, 4th ed. (Year Bk. Med. Pubs. 1961); A. G. DeSanctis and Chas. Varga, Handbook of Pediatric Medical Emergencies, 2nd ed. (Mosby 1956); J. L. Gamble, Chemical Anatomy, Physiology and Pathology of Extracellular Fluid, 6th ed. (Harvard Univ. Pr. 1954); A. L. Gesell, The Embryology of Behavior, the Beginnings of the Human Mind (Harper 1945); Morris Green and J. B. Richmond, Pediatric Diagnosis (Saunders 1954); Leo Kanner, Child Psychiatry, 3rd ed. (Thomas 1957); J. D. Keith, R. D. Rowe and Peter Vlad, Heart Disease in Infancy and Childhood, N.Y. (Macmillan 1958); C. A. Smith, The Physiology of the Newborn Infant, 3rd ed. (Thomas 1959); Lawson Wilkins, Diagnosis and Treatment of Endocrine Disorders in Childhool and Adolescence, 2nd ed. (Thomas 1957); D. Y. Hsia, Inborn Errors of Metabolism (Year Book Pub. 1959).

INSTITUTE OF PARASITOLOGY

Professor

T. W. M. CAMERON, Director

Assistant Professors

R. P. Harpur
E. Meerovitch
B. J. Myers
G. A. Schad
C. E. Tanner
G. A. Webster

REQUIRED COURSES

SECOND YEAR

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ment of Those The animal parasites of man (protozoa, helminths and arthropods) are considered as an integral part of the Second year course in Medical Microbiology (see p. 1622). Exotic parasites are discussed briefly.

ELECTIVE COURSES

The Institute not only provides facilities for advanced research work at the Institute of Parasitology, but offers didactic courses in general and comparative parasitology and courses leading to the degrees of M.Sc., and Ph.D. (See Announcement of the Faculty of Graduate Studies and Research.)

Textbook: T. W. M. Cameron, The Parasites of Man in Temperate Climates, 2nd ed. (Univ. of Toronto Pr. 1946).

DEPARTMENT OF PATHOLOGY

Strathcona Professor

G. C. McMILLAN, Chairman

Associate Professors

W. H. MATHEWS F. W. WIGLESWORTH

Assistant Professors

D. S. KAHN

G. MATHIESON W. J. PIROZYNSKI

H. SHELDON

W. M. THURLBECK

Lecturers

ILONA KERNER S. MOORE

PAULA H. SCHOPFLOCHER

M. A. SIMON

Demonstrator

J. P. LATOUR

REQUIRED COURSES

- 1. COURSE IN GENERAL PATHOLOGY (FIRST YEAR)
 - A. Illustrated lectures during the Spring term totalling 36 hours.

 Professor McMillan and Staff
 - B. Practical laboratory classes during the Spring term totalling 72 hours.

 Professor Pirozynski and Demonstrators
- 2. COURSE IN SPECIAL PATHOLOGY (SECOND YEAR)
 - A. Illustrated lectures throughout the Second year totalling 72 hours.

 Professor McMillan and Staff
 - B. Practical laboratory classes throughout the Second year totalling 72 hours.

 Staff
 - C. Group demonstrations throughout the Second year totalling 72 hours.

 Staff
- 3. COURSE IN APPLIED PATHOLOGY (THIRD AND FOURTH YEARS)
 - A. Clinico-pathological Conferences alternate weeks throughout the Third year totalling 54 hours.

 Professor McMillan and Staff
 - B. Instruction in the performance of autopsies with demonstration of autopsy findings during the Fourth year.

Pathological Institute

Professor Pirozynski

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Montreal General Hospital

Professor Mathews

Montreal Children's Hospital

Professor Wiglesworth

Textbooks: W. A. D. Anderson, Pathology, 4th ed. (Mosby 1961); Wm. Boyd, A Textbook of Pathology, 7th ed. (Lea and Febiger 1961); Wm. Boyd, Pathology for the Surgeon, 7th ed. (Saunders 1955); Wm. Boyd, Pathology for the Physician, 6th ed. (Lea and Febiger 1958); C. Payling Wright, Introduction to Pathology, 2nd ed. (Longmans Green 1954).

Reference Books: J. G. Greenfield et al., Neuropathology (Arnold 1958); G. D. Lumb, Tumours of Lymphoid tissue (Livingstone 1954); E. Novak, and E. R. Novak, Gynecologic and Obstetric Pathology, 4th ed. (Saunders 1958); R. A. Willis, Pathology of Tumours, 3rd ed. (Butterworth 1960).

DEPARTMENT OF PHARMACOLOGY

Professor

K. I. MELVILLE, Chairman

Associate Professor

B. G. BENFEY

Assistant Professors

N. R. EADE B. A. KOVACS

R. R. MARTEL

Lecturers

L. E. FRANCIS
G. E. JORON

H. E. SHISTER

Sessional Lecturer

D. R. VARMA

Research Associate

E. M. KOVACS

The object of the course in pharmacology is to elucidate, as far as knowledge permits, the action of drugs, and thereby lay a sound foundation for drug therapy.

MIN IA. PHAR WACOLOGY

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72 hrs.

The action of drugs is considered on the basis of information derived by means of experimental methods and careful clinical observation. The chemistry and metabolism (absorption, distribution and fate) of the drugs studied are emphasized in so far as they may be correlated with the underlying mechanism of action and of the agent's therapeutic usage. General principles of action of the various classes of drugs are covered in order that the student may have a good foundation upon which to follow development of the subject intelligently.

Two lectures a week during the Autumn and Winter terms. Second

18. PHARMACOLOGICAL LABORATORY

The experiments are chosen to illustrate the lecture course.

One period (three hours) a week during the Autumn and Winter terms.

DEMONSTRATIONS

In conjunction with the laboratory work, a number of demonstrations to illustrate special aspects of the lectures will be given during the year, either (a) in the Departmental laboratories (replacing the usual laboratory work) or (b) in conjunction with the Department of Medicine (Therapeutics) in the Teaching Hospitals. These latter are designed to present selected clinical cases illustrating practical applications of drug usage.

CONFEDENCES

During the year four conferences of 45 minutes each and limited to six students, will be arranged. These conferences will replace the regular laboratory periods at the times specified.

2. TOXICOLOGY

A course of ten lectures devoted to the problems of acute poisoning (occurrence, symptoms, modifying factors, diagnosis and treatment), is given during the 3rd term of the Second year.

Dr. G. B. Joron

Textbooks: Applied Pharmacology (Clark), 9th ed., by Andrew Wilson and H. O. Schild (Churchill 1959); E. H. Bensley and G. E. Joron, Randbook of Treatment of Acute Poisoning, 2nd ed. (Livingstone, 1958);

J. H. Gaddum, Pharmacology, 5th ed. (Oxford Univ. Press 1959); V. A. Drill, Pharmacology in Medicine, 2nd ed. (McGraw-Hill 1958); L. S. Goodman and A. Z. Gilman, Pharmacological Basis of Therapeutics, 2nd ed. (Macmillan 1955); J. C. Krantz and C. J. Carr, Pharmacologic Principles of Medical Practice, 4th ed. (Williams and Wilkins 1961); J. J. Lewis, An Introduction to Pharmacology (Livingstone, 1960).

ELECTIVES

Suitably prepared students may undertake special research or training projects under direction of a staff member at any time, by application to the Chairman of the Department.

Advanced courses leading to the degrees of M.Sc. or Ph.D. will be arranged to suit individual cases. See Announcement of the Faculty of Graduate Studies.

DEPARTMENT OF PHYSIOLOGY

7	nseph	Morley	Drake	Professor	F. 0	C. MACINTOSH	. Chairman
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Professor	B. D. BURNS
1 . D . C	C MELVILL IONES

		KATHLEEN	G. '	TERROUX
4 ssistant	Professors		R.	I. BIRKS

J. Q. Bliss
SIMON DWORKIN
R. P. GANNON
BERNICE GRAFTSEIN
CARL PINSKY
E. J. REININGER
PAUL SEKELJ

Lecturers

O. M. SOLANDT J. W. TRANK

REQUIRED COURSES

FIRST YEAR

BIOCHEMISTRY—PHYSIOLOGY 1.

Monday to Friday, at 9 a.m.

BIOCHEMISTRY—PHYSIOLOGY 1D.

Demonstrations and tutorials: one hour a week.

BIOCHEMISTRY-PHYSIOLOGY 1L.

Laboratory: six hours a week.

This is an integrated course of lectures, tutorials, demonstrations and laboratory work, given by the two departments.

INTRODUCTION TO MEDICINE

One hour a week, from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are conducted in turn by the Departments of Anatomy, Biochemistry, and Physiology.

SECOND YEAR

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2. ANATOMY AND PHYSIOLOGY OF THE CENTRAL NERVOUS SYSTEM

Two hours lecture, two hours laboratory, and one hour demonstration a week, during the second term.

This is one course, given by the Departments of Anatomy, Neurology and Neurosurgery, and Physiology.

ELECTIVE COURSES

1E, SELECTED TOPICS IN PHYSIOLOGY

These are discussed from the point of view of current research in the Department.

2 hours a week.

3E. RESEARCH IN BIOCHEMISTRY AND PHYSIOLOGY

A limited number of students may take Biochemistry or Physiology as elective subject in their Third year. These students will be given the opportunity of participating in departmental research projects.

DEPARTMENT OF PSYCHIATRY

Associate Professors

Professo	75

D. E. CAMERON, Chairman

R. A. CLEGHORN A. E. MOLL

T. E. DANCEY

N. B. EPSTEIN

V. A. KRAL H. LEHMANN

A. W. MACLEOD R. B. MALMO

M. SAFFRAN

T. L. SOURKES

TAYLOR STATTEN

E. D. WITTKOWER

Assistant Professors:

J. Aufreiter
H. Azima
R. C. M. Hamilton
M. Birmingham
C. Bos
R. C. A. Hunter
H. Caplan
B. M. Cormier
J. F. Davis
P. Edgell

B. Grad
R. C. M. Hamilton
L. G. Hisey
R. C. A. Hunter
H. B. Murphy
M. S. Rabinovitch
C. A. Roberts

Lecturers:

ALAN MANN G. AUFREITER L. MERGLER F. AZIMA J. NAIMAN S. BARZA D. PIVNICKI I. BEAUBIEN R. H. PRINCE C. H. CAHN H. B. DUROST G. J. SARWER-FONER C. H. SKITCH BRIAN HUNT C. C. SMITH W. G. KRAUSER H. KRAVITZ J. C. STANLEY D. LEVIN W. J. STAUBLE L. LEVY W. STRAKER G. C. TAYLOR Z. J. LIPOWSKI S. WILNER F. W. LUNDELL

Sessional Lecturers:

M. Prados B. Silverman

Demonstrators:

THOMAS BAN E. LIBMAN C. CAHILL A. S. MACPHERSON J. MACKAY J. CUMBERLAND R. L. DE VERTEUIL A. F. MESZAROS I. S. DISHER H. F. MULLER W. D. ENGELS G. O. PATTON K. FERGUSON P. D. ROPER H. F. FYFE A. RUSSELL H. GRAUER J. SANGOWICZ G. HANRAHAN A. E. SCHWARTZMAN R. M. SMITH E. KINGSTONE J. L. LAPOINTE L. SOLYOM E. LESTER B. WAINRIB E. LEVINSON D. WEBSTER I. LOHRENZ

REQUIRED COURSES

FIRST YEAR

GROWTH, DEVELOPMENT AND HUMAN RELATIONSHIPS: A total of 16 hours, the first two being introductory lectures in psychobiology. The remaining hours of the course will include technique of child examination, diagnosis of child psychiatric states, child psychiatric problems as seen in various treatment facilities, including paediatrics out-patient clinic.

Professors Cameron, Statten, Ross (Paediatrics) and Staffs

SECOND YEAR

Two courses of lectures: (a) 12 1-hour lectures on psychopathology; (b) 12 2-hour sessions on psychiatric case studies, with case presentation.

Professors Roberts, Lehman and Staff

THIRD YEAR

Six weeks block teaching, distributed among six teaching centres, to acquaint students with the examination of patients and understanding of some of the major factors involved in abnormal behaviour. Diagnostic procedures, psychotherapeutic and physical methods of treatment, will be among the aspects covered. During this year students will be provided with tutors on a group basis and will also have more specialized training in the areas of child psychiatry, community psychiatry and mental disorders.

Professors Cameron, Moll, Dancey, Roberts, Statten, Silverman and Staffs

FOURTH YEAR

The teaching in this year will be largely focused on clerkship. Students will attend tutorials, ward rounds, seminars, conferences, etc., at the Allan Memorial Institute, Montreal General Hospital and Queen Mary Veterans Hospital.

Professors Cameron, Moll, Dancey and Staffs

Textbooks: W. Mayer-Gross, E. Slater and M. Roth, Clinical Psychiatry (Cassell 1955); O. S. English and S. M. Finch, Introduction to Psychiatry (Norton 1954); Stella Chess, Introduction to Child Psychiatry (Grune 1959).

DEPARTMENT OF RADIOLOGY

Professor Carleton B. Peirce, Chairman

Associate Professors J. J. L. Bouchard
D. L. McRae
D. J. Sieniewicz

Assistant Professors E. F. Crutchlow
J. S. Dunbar
R. G. Fraser

Assistant Professor of Physics

L. G. STEPHENS-NEWSHAM

Lecturers N. M. Brown F. A. GRAINGER B. B. HALE M. N. LOUGHEED T. F. B. PHILIPS

D. BERGER J. J. HAZEL J. A. LIVER F. R. MACDONALD D. W. MACEWAN F. McConnell G. B. SKINNER

Demonstrator (Physics) R. A. Beique

FIRST YEAR

In co-operation with the Department of Anatomy, during a series of nine lecture-demonstrations a member of the Department of Radiology serially presents the normal roentgen anatomy pertinent to the progress of the student in his study of gross anatomy.

Additional illustrative roentgenograms are made available for the day to day comparison during dissection of the skeletal, respiratory, gastro-intestinal and urogenital systems, with special attention to the functional anatomy of joints, the thoracic viscera and the alimentary Professor Peirce and Staff tract.

SECOND YEAR

INTRODUCTION TO RADIOLOGY

A course of twelve lectures is designed to (a) familiarize the medical student with the principles of radiation physics and radiation biology; (b) introduce the student to the basic principles of diagnosis and therapy by means of ionizing radiations; and (c) demonstrate the uses and limitations of radiological methods of examination and treatment in medicine. The physical characteristics of ionizing radiations (x-rays, alpha, beta and gamma radiations of the natural and manufactured radioactive isotopes) and their biological effects on tissues are discussed and demonstrated. This is followed by consideration and demonstration of the application of these features to the investigation of the structure and function of the various organic systems and supporting structures of the body in medical examination and diagnosis. Similarly these features are considered as agents in the treatment of neoplasia and other functional abnormalities in disease. Illustrative material is used extensively.

Professor McRae

During his study of physical diagnostic methods opportunity is available for the student to amplify this introduction by observation of fluoroscopic examinations of the cardio-respiratory and gastro-intestinal tracts and through demonstrations of other roentgenologic studies.

Professors Peirce and Sieniewicz and Staff

THIRD YEAR

(a) Clinical applications of the diagnostic and therapeutic uses of ionizing radiations are discussed and demonstrated for periods of at least one and one-half hours per week to the several clinical groups of students attending both Medicine and Surgery in each of the major teaching hospitals.

The case material is so arranged that during the four such periods in the Third and Fourth years a wide field of systemic or organic diseases is covered in regard to diagnosis and the general principles of therapeutic application demonstrated, including some acquaintance with the uses of radioactive isotopes, both diagnostically and therapeutically.

Professors Peirce, Bouchard and Sieniewicz and Staff

(b) Elective: Third year students who choose Radiology as their elective field are assigned a tutor under whose guidance they devote as much of their time and energy as possible to the study of radiologic investigation or treatment of disease. Each is required to select some special topic for investigation and prepare an essay on the subject which he presents formally before the staff of the Department in the respective hospital.

Professors Peirce, Bouchard and Sieniewicz and Staff

FOURTH YEAR

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Clinical discussions of the applications of the diagnostic and therapeutic uses of ionizing radiations are continued as in the Third year in weekly periods of at least 1½ hours each while attending Medicine and Surgery in the general teaching hospitals. In addition each group attending Paediatrics has at least an hour per week on radiologic manifestations of disease in infancy and childhood.

Professors Peirce, Bouchard and Sieniewicz, Assistant Professor Dunbar and Staff

Text and Reference Books: A. E. Barclay, The Digestive Tract, 2nd ed. (Camb. Univ. Pr. 1936); J. P. Caffey, Pediatric X-ray Diagnosis, 4th ed. (Year Bk. Pubs. 1961); Otto Glasser, et al., Physical Foundations of Radiology, 2nd ed. (Harper 1952); F. J. Hodges, et al., Radiology for Medical Students, 3rd ed. (Year Bk. Pubs. 1958); G. W. Holmes and L. L. Robbins, Roentgen Interpretation, 8th ed. (Lea and Febiger 1955); Alban Kohler, Roentgenology, 2nd ed. (Bailliere 1935); Isadore Meschan, An Atlas of Normal Radiographic Anatomy, 2nd ed. (Saunders 1959); Isadore Meschan, Roentgen Signs in Clinical Diagnosis (Saunders 1956); E. P. Pendergrass, J. P. Schaeffer and P. J. Hodes, Head and

Neck in Roentgen Diagnosis, 2nd ed., 2 vols. (Thomas 1956); LeRoy Sante, Principles of Roentgenological Interpretation, 11th ed. (St. Louis Bk. Distrib. Co. 1958); S. C. Shanks and P. J. Kerley, Textbook of X-ray Diagnosis, 3rd ed., 4 vols. (Saunders 1957-60); M. B. Wesson, Urologic Roentgenology, 3rd ed. (Lea and Febiger 1950); W. H. Beierwaltes, P. C. Johnson and A. J. Solari, Clinical Use of Radioisotopes (Saunders, 1957); Joseph Selman, The Fundamentals of X-Ray and Radium Physics, 2nd ed. (Thomas 1958); Friedrich Ellinger, Medical Radiation Biology (Thomas 1957); D. E. Lea, Actions of Radiation on Living Cells, 2nd. ed. (Camb. Univ. Press, 1956); Franz Buschke, Progressive Radiation Therapy (Grasse and Stratton, 1958); Iva I. Kaplan, Clinical Radiation Therapy, 2nd ed. (Hoeker, 1949).

POSTGRADUATE INSTRUCTION

DIPLOMA IN RADIOLOGY

Details of the Postgraduate course leading to the Diploma in Radiology of the Faculty of Medicine may be obtained from the Chairman of the Department.

Postgraduate training prerequisite to certification in the specialty by College of Physicians and Surgeons, Province of Quebec, the Royal College of Physicians and Surgeons (Canada) or the American Board of Radiology is available in the teaching hospitals in conjunction with the Diploma Course for selected graduates of approved Faculties or Schools of Medicine.

DEPARTMENT OF SURGERY

Professors	H. R. ROBERTSON, Chairman
A long and rotate to waithwarter all A	D. R. Webster
Associate Professors	
F. N. GURD	H. S. Morton
J. C. Luke	H. F. Moseley
J. R. McCorriston	D. R. MURPHY
C. A. MACINTOSH	A. M. VINEBERG
S. J. MARTIN	F. M. Woolhouse
Assistant Professors	
H. A. BAXTER	G. A. HOLLAND
S. G. BAXTER	E. A. MACNAUGHTON
W. M. COUPER	J. D. PALMER
C. M. GARDNER	H. F. OWEN
J. W. GERRIE S. C.	SKORYNA (Experimental Surgery)
Lecturers	
J. C. Dickison	R. N. LAWSON
J. A. DRUMMOND	R. C. Long

M. A. Entin	D. D. Munor
I. W. D. HENDERSON J. F. HOPKIRK	J. C. SUTTON
J. F. HOPKIRK	Е. Ј. Таван

Demonstrators

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	A. R. Bazin	D. T. LIN
	H. E. BEARDMORE	J. R. Moore
	N. J. BELLIVEAU	D. W. RUDDICK
	A. R. C. DOBELL	Н. Ј. Ѕсотт
	R. L. ESTRADA	I. Shragovitch
	L. G. HAMPSON	J. L. Shugar
	A. F. Jones	A. G. THOMPSON
	G. M. KARN	E. W. WORKMAN

ORTHOPAEDIC SURGERY

Associate Professors	J. G. PETRIE
	J. G. SHANNON
Lecturers	A. A. BUTLER
	R. G. TOWNSEND
	J. A. L. WALKER
Demonstrators	I. S. BITENC
	J. M. McIntyre
	E. C. PERCY
	C. LAIRD WILSON

UROLOGY

Associate Professors	K. J. MACKINNON R. G. REID
Lecturers	S. A. MacDonald J. T. MacLean
Demonstrators	N. HALPERN W. F. LINGARD
	C. A. Moore
	T. NEARING
	J. Susset

REQUIRED COURSES

SECOND YEAR

Surgical teaching begins in the Spring term (12 weeks) of the Second year. In this year special attention is directed to the instruction and training of the student in proper methods of physical examination from the surgical point of view.

2A. A COURSE OF LECTURES (12) is given covering the basic principles of Surgery.

2B. GROUP CLASSES in the wards of the Montreal General and Royal Victoria and Queen Mary Veterans Hospitals. At these, small groups of students are instructed in methods of examination as applied to surgery and its allied specialties.

THIRD YEAR

The student comes into a more intimate contact with the patients, and in the surgical term of eight weeks is assigned cases, writes case reports, acts as dresser, and assists at operations. His clinical work is confined to one hospital—either the Montreal General Hospital or the Royal Victoria Hospital.

- 3A. DISCUSSIONS concerning material covered in an assigned reading course will be held in the Montreal General and the Royal Victoria Hospitals one day each week.
- 3B. GROUP WARD CLASSES in the Montreal General and the Royal Victoria Hospitals, five times a week during the term.
- 3C. CASE REPORTING. Patients are allotted to students who act as reporters, dressers, and assistants at operations.

FOURTH YEAR

In the Final year the student spends eight weeks attached to the surgical service of a hospital. During four of these weeks the student is required to live in the hospital.

SURGICAL DISEASES OF CHILDREN

Some instruction in the surgical diseases of children is given during the trimester in which the students are assigned to paediatrics at the Montreal Children's Hospital as follows:

4A. GROUP WARD CLASSES three times a week throughout the trimester.

In their Final year students attend either the Shriners Hospital or the
Montreal Children's Hospital for further instruction in paediatric surgery.

ORTHOPAEDIC SURGERY

Some lectures covering the basic principles of orthopaedic surgery are given in the Second year and members of the Orthopaedic Staffs of the Montreal General Hospital and Royal Victoria Hospital participate in the Second and Third year bedside clinics.

In the Final year seminars are conducted by members of the Orthopaedic Staff.

UROLOGY

In the Final year students are assigned to the Urological Services of the Montreal General Hospital and Royal Victoria Hospital for one week and, in addition to this, ward classes are held three times a week in each hospital.

Textbooks:

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General Surgery: Ian Aird, Companion in Surgical Studies, 2nd ed. reprint 1958 (Livingstone 1958); Hamilton Bailey, Demonstrations of Physical Signs in Clinical Surgery, 13th ed., (Bristol, John Wright and Sons 1961); Christopher's Minor Surgery, ed. by Alton Ochsner and M. E. DeBakey, 8th ed. (Saunders 1959); Frederick Christopher, Textbook of Surgery, 7th ed. (Saunders 1960); W. H. Cole and Robt. Elman, Textbook of Surgery, 7th ed. (Appleton 1959); H. F. Moseley, Textbook of Surgery, 3rd ed. (Mosby 1959).

Surgical Anatomy: A. Lee McGregor, Synopsis of Surgical Anatomy, 8th ed. (Williams and Wilkins 1957).

Fractures and Dislocations: R. Watson Jones, Fractures and Joint Injuries, 4th ed., 2 vols. (Livingstone 1952-1955), reprint 1960.

Urology: M. F. Campbell, Urology, 3 vols. (Saunders 1957); F. H. Colby, Essential Urology, 3rd ed. (Williams and Wilkins 1956); D. N. Eisendrath and H. C. Rolnick, Urology, 4th ed. (Lippincott 1938); R. Nesbit, Fundamentals of Urology, 4th ed. (Edwards 1953).

Orthopaedic Surgery: W. C. Campbell, Operative Orthopaedics, 3rd ed., 2 vols. (Mosby 1956); Walter Mercer, Orthopaedic Surgery, 5th ed. (Arnold 1959).

GRADUATE INSTRUCTION

- 1. Any medical graduate of McGill University who so desires may attend any of the regular undergraduate clinics. This opportunity frequently appeals to many of our graduates, who find in this plan a means of bringing their knowledge of medicine up to date.
- 2. Special graduate work is offered in every department, both in the laboratories and in the clinics. Applications in writing, addressed to the chairman of the department concerned, must state the qualifications and experience of the applicant and the nature of the work he desires to do, The minimum fee is \$30.00 a term (10 weeks).

A Diploma in Tropical Medicine and Hygiene is granted by McGill University.

This course is conducted by the Department of Health and Social Medicine, with the collaboration of other departments in the Faculty of Medicine and the assistance of members of other faculties in the University who have a special interest in this field.

The Department of Health and Social Medicine is housed in quarters at 515 Pine Avenue West, within easy access of the Medical Building. The building contains ample accommodation for lectures, seminars, and demonstrations. In addition to the excellent facilities of the Library

of the Faculty of Medicine, which are at the disposal of students, the Department has its own library and reading-room. The building is also the headquarters of the Student Health Service.

DIPLOMA IN TROPICAL MEDICINE AND HYGIENE (D.T.M. & H.)

The course of instruction occupies a full academic year. Classes for the first term include bacteriology and immunology, epidemiology, environmental hygiene, industrial hygiene, and public health organization and administration, vital statistics, biometrics, maternal, infant, pre-school and school hygienes, etc. Those for the second term are held at the Institute of Parasitology at Macdonald College of McGill University. The teaching collection at the Institute is a large and representative one.

The work is practical as well as theoretical, and includes a study of Parasitology and Medical Entomology, laboratory diagnoses of tropical and sub-tropical diseases, and lectures on the diseases of the tropics, on tropical hygiene, and minor sanitation.

Clinical instruction must, of necessity, be limited in temperate climates. This aspect is, therefore, deferred to the final part of the course which is given in the tropics at the conclusion of the didactic instruction. The course consists of clinical and field work for which arrangements have been made with Georgetown, British Guiana, Port of Spain, Trinidad, and Venezuela.

Candidates for the Diploma in Tropical Medicine and Hygiene must be graduates in medicine of a recognized university. Certain additional courses may be required of those who are not recent graduates or of those who have not had sufficient clinical practice.

The Fee for the Diploma in Tropical Medicine and Hygiene is \$250, or \$100 if preceded by a D.P.H. course or its equivalent.

Application must be made prior to June 1st.

BUILDINGS -

THE MEDICAL BUILDING

This building contains the Offices of Administration, the Medical Library (with its 90,000 volumes, its Reading Rooms, and their complete set of technical journals), the Department of Anatomy, and the Museum of Anatomy. The Faculty of Dentistry is also in this Building.

The Department of Anatomy, with its commodious laboratories, its dissecting room, with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who

desire opportunities for research are adequately cared for in this Department. The laboratories for Histology and Embryology have excellent facilities with space for 120 students, and smaller rooms for research.

THE BIOLOGICAL BUILDING

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Completed in 1922, this building was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. The extensive structure—184 feet by 60 feet—houses on each of its floors laboratories devoted respectively to Botany, Zoology, Genetics, Biochemistry, Physiology, and Pharmacology.

Each of these departments is provided with laboratories and units for undergraduate teaching and graduate research.

THE PATHOLOGICAL INSTITUTE

This building was opened for use in October, 1924. It is situated on the northeast corner of University Street and Pine Avenue adjacent to the Medical Building, the Montreal Neurological Institute and the Royal Victoria Hospital. It accommodates the Departments of Bacteriology and Pathology and contains a pathological Museum and two departmental Libraries. There are extensive facilities for undergraduate teaching, postgraduate training and research, and for pathological, anatomical and microbiological diagnosis.

THE MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. The construction of the McConnell Wing, opened in 1953, approximately doubled both the clinical and laboratory space. Unsurpassed in its equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neurosurgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine. In addition to wards, operating rooms, and laboratories for treatment and study of diseases of the nervous system, the building provides facilities for graduate study and research in the related fields of basic science.

THE ALLAN MEMORIAL INSTITUTE

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building was reconstructed to permit of the establishment of a fifty bed unit, together with extensive research laboratories, and was officially opened July 12th, 1944. In 1953 further reconstruction and the addition of a new wing brought the total In-Patient bed capacity to 89 with a Day Hospital for forty patients.

Both undergraduate and postgraduate teaching are carried on at the Institute.

THE DONNER BUILDING

The Donner Building for Medical Research, adjacent to the Medical Building, was completed in September 1948. Its erection was made possible through the generosity of William H. Donner of Philadelphia, the late founder of the International Cancer Research Foundation, who provided the funds necessary for the construction of a building entirely devoted to medical research.

This building houses the Maxwell Lauterman Laboratories for Experimental Surgery and laboratories for Dentistry and Experimental Psychology.

HOSPITALS

Few medical schools on this continent offer better facilities than those enjoyed by the students of McGill University. Ideal academic and topographical conditions exist for the teaching of scientific and practical medicine.

The Medical Faculty is on the University Campus, and is thus in juxtaposition to the scientific laboratories of the University and to the largest teaching hospital in the city. Co-operation with the scientific and cultural departments of the University, as well as with clinical facilities, is thereby made easy.

The following hospitals and institutions are at the disposal of the teaching staff and students for clinical and pathological study:

Royal Victoria Hospital Montreal General Hospital Montreal Children's Hospital Alexandra Hospital for Infectious Diseases Verdun Protestant Hospital Royal Edward Laurentian Hospital Royal Victoria Montreal Maternity Hospital

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical Faculty. These affiliated hospitals contain over 3,000 beds.

The Royal Victoria Hospital, in juxtaposition to the University buildings, comprises the following units under one administration:

- 1. The Main Building:
- 2. The New Medical Wing.
- 3. The New Surgical Wing;
- 4. The Ross Memorial Pavilion for private patients;

- 5. The Women's Pavilion—Royal Victoria-Montreal Maternity;
 - 6. The Allan Memorial Institute.

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The total bed complement is 1,023, with 115 bassinets. Admissions total approximately 22,000 and confinements are in excess of 3,600 a year. There are some 97,000 visits annually to the Out-Patient Department. The University Clinic was established in 1924 and has facilities for both clinical laboratory work and research.

Post-mortems total 60 per cent of the deaths.

The number of resident physicians is 200.

The Royal Victoria-Montreal Maternity Pavilion, with 197 beds for obstetrical and gynaecological cases. In this institution there are 117 teaching beds and an organized out-patient service which is of the greatest benefit to the undergraduate student. In a typical year, the obstetrical service cared for over 3,600 confinements in the Hospital. In the gynaecological section, over 2,800 cases are admitted during the year.

There are 18 resident physicians.

The Montreal General Hospital has a bed complement of 750 for the treatment of acute diseases. In a typical year, there were approximately 18,000 admissions and 150,000 consultations in the Out-patient Department. The resident and interne staff numbers 130.

The "Montreal General" was founded in 1821; two smaller buildings downtown had preceded it in 1816 and 1819. In age, therefore, it is not the oldest hospital in Canada, but its record in clinical teaching is one of the longest on the North American continent.

From the time the Hospital was opened, its staff began to arrange for students and, in 1823, they opened the first Medical School in Canada, the Montreal Medical Institution, with 25 students. Their teaching was carried on partly at the Hospital. It was this School which agreed to form the Medical Faculty of McGill University in 1829; the beginning of a long and intimate association between the Hospital and the University.

The present buildings on Cedar Avenue were occupied in 1955.

The Montreal Children's Hospital has 369 beds (240 public beds), and, in a typical year, admitted 12,000 patients. The attendance at its out-door department totalled 100,000 clinic visits. This hospital admits all classes of cases of disease in children except pulmonary tuberculosis and the communicable diseases, and enables students to get a broad concept of paediatrics.

There were 175 autopsies in a typical year, which represented 85% of all deaths.

The number of resident physicians is 100.

The Alexandra Hospital for Infectious Diseases, opened in 1906, with modern wards, cubicles and equipment is regularly attended by students who receive demonstrations on the essential features of all the common acute infectious diseases and tuberculosis.

There are three wards for the treatment of tuberculosis in children and tuberculous meningitis in adults and children. There are 150 beds (including 50 for tuberculosis) and the average yearly admissions range between 800 and 1,000.

There is a resident senior physician and two junior rotating physicians.

The Verdun Protestant Hospital was opened in 1890. It is a psychiatric hospital for the treatment of emotional and mental diseases and with its 1,450 beds, serves mainly the English speaking communities of the Province of Quebec. It is directed by a private Board of Governors, but admits non-paying patients on the basis of a contract with the Provincial Government. There are about 1,150 admissions per year and in the after-care out-patient clinic some 1,400 patients are seen during the year. The medical staff consists of 14 staff psychiatrists and 13 psychiatric residents who are registered with the McGill Diploma Course in Postgraduate Psychiatry. All Third-year undergraduate medical students of McGill University spend three weeks on the wards of the hospital as part of their psychiatric teaching. The nursing instruction program provides a psychiatric affiliation for almost all English speaking nursing schools of the Province, a one-year training programme for psychiatric nursing-assistants and a 6 months postgraduate course in psychiatric nursing. Students of Occupational Therapy at McGill University and the University of Montreal are given 3 to 4 weeks' training experience, and during the summer Occupational Therapy students from all over Canada spend two months in clinical field work at the Hospital. An active research program is carried on in the basic and clinical aspects of human behaviour.

The Royal Edward Laurentian Hospital has as its objectives the study, prevention and treatment of tuberculosis and diseases of the chest. It consists of two Divisions—one located in Montreal a few blocks from the University and the other in Ste. Agathe des Monts.

The Montreal Division comprises the following:

An outpatient department which includes:
An antituberculosis dispensary and
A chest clinic

A hospital which consists of:
A pulmonary tuberculosis unit (77 beds) and
A chest disease unit (50 beds)

This Division's facilities include air conditioned operating and recovery rooms, a respiratory physiology laboratory, a large bacteriology laboratory, several individual laboratories for research workers, and an autopsy room.

The resident staff consists of:

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- 1 assistant resident surgeon
- 1 resident physician
- 4 assistant resident physicians

The Laurentian Division comprises a 144-bed sanatorium.

The resident staff consists of 2 assistant resident physicians.

THE MEDICAL LIBRARY

Honorary Librarian Medical Librarian LLOYD G. STEVENSON
GRACE HAMLYN

The Library, now of nearly 90,000 bound volumes, originally occupied the central front section of the medical building but has expanded its stack area to the north side on the two lower floors.

The Reading Room is on the fourth floor of the building with a small periodical room adjacent. The third floor contains the stacks for bound journals and has three study rooms for use of members of the teaching staff. The second floor is devoted to administration and technical operations.

The chief value of the Library is in its periodical collection. About 2,000 journals are received currently in almost all languages. The book collection is especially noteworthy in the ophthalmological section due in large measure to many gifts from the late Dr. Casey A. Wood.

The Library is for members of the teaching staff and students of the Faculty and of the whole University, and for research workers and doctors in the city. An extensive interlibrary loan service throughout the country is maintained.

The Library is open during the academic session from Monday to Friday, 9 a.m. to 10 p.m. September to March; 9 a.m. to 11 p.m. April to mid-June; Saturday 9 a.m. to 5 p.m. After June 15th the hours are 9 a.m. to 5 p.m. Monday to Friday, closed Saturday.

There are also small libraries and collections of books and journals located in several Departments of the Faculty.

THE OSLER LIBRARY

This special library of the history of medicine and science, collected by Sir William Osler with a view to its educational value, was bequeathed by him to his Alma Mater. The Osler Library, which comprises nearly 12,500 volumes, occupies a large room, beautifully equipped, on the fourth floor, convenient to the Medical Library. The collection is rich in early editions of the older literature, as well as in modern historical works, and its importance and usefulness are much enhanced by the donor's annotated catalogue. Planned and prepared by Osler along very unusual lines, the catalogue was completed, indexed, and printed after his death (Bibliotheca Osleriana, Clarendon Press, Oxford, 1929, xxxvi, 785 pp.).

The books are classified in eight sections, of which the first, the "Bibliotheca Prima," presents a bibliographical outline of the evolution of science (including medicine), and was planned to contain the essential literature arranged chronologically under the names of the greatest contributors to the advancement of knowledge. Another feature of the Library is its Incunabula, a valuable collection of 150 books printed in the fifteenth century. Recently the Wellcome Trust has given generous annual grants for the purchase of expensive books to fill gaps in the Osler collection.

The Osler Library is open daily, except Sunday, for the use of undergraduates and all who are interested. The Librarian will be glad to give advice or informal instruction to students. Accommodation is provided for readers. The books belonging to the original collection may not be borrowed or removed from the Library, but this restriction does not apply to the current works on the history and biography of medicine and science which are constantly being added.

MEDICAL SOCIETIES

McGILL UNDERGRADUATE MEDICAL SOCIETY

The Society is composed of the registered students of the faculty. Its purpose is:

- (1) To transact all matters of business connected with the undergraduate body;
 - (2) To stimulate interest along medical lines;
 - (3) To assist students to express themselves in public with facility;
- (4) To provide an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.

(5) To organize, during the course of the school year certain outside activities such as the annual Medical Banquet and Ball.

Monthly meetings are held at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter, and three Councillors (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

The society also maintains the Students' Reading Room. English and American journals, as well as the leading daily newspapers are kept on file.

ALPHA OMEGA ALPHA HONORARY MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912

There are honorary, graduate, and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the Third and Fourth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

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The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes men from each class in the faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.

Faculty of Medicine

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McGill University FACULTY OF MEDICINE

ADMINISTRATIVE OFFICERS

H. ROCKE ROBERTSON, B.Sc., M.D., C.M., F.R.C.S.(Edin.), F.R.C.S.(C), F.A.C.S.

DAVID L. THOMSON, M.A., Ph.D., D.Sc., LL.D., F.C.I.C., F.R.S.C.

Wice-Principal
H. NOEL FIELDHOUSE, M.A., F.R.S.C., F.I.A.L.
Vice-Principal (Academic)

LLOYD G. STEVENSON, B.A., M.D., Ph.D., D.Litt.

Dean of the Faculty

EDWARD H. BENSLEY, M.B.E., B.A., M.D., F.R.C.P.(C), F.A.C.P.

Associate Dean and Secretary of the Faculty

S. M. BANFILL, M.B.E., B.A., M.D., C.M.

COLIN M. McDOUGALL, D.S.O., B.A.

G. A. GRIMSON, B.Com.

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RICHARD PENNINGTON, B.A., Lib.Dip.

Assistant Dean

Registrar

Comptroller

University Librarian

Special Announcements are available for the School of Physical and Occupational Therapy, and the School for Graduate Nurses.

Details of Scholarships, Bursaries, Prizes, Medals, and Loan Funds are given in the Scholarship Announcement, which may be obtained from the Registrar's Office.

FACULTY OF MEDICINE

The one hundred and thirty-first session of the Faculty will open on September 4, 1963 for students of all years.

Students may enter the Faculty of Medicine in one of two ways. A limited number will be admitted from high school to the Double Course in Science and Medicine. Most will be admitted from college to the four-year medical course.

A. DOUBLE COURSE IN SCIENCE AND MEDICINE

REQUIREMENTS FOR ENTRANCE

Students of high calibre and first-rate academic attainment will be admitted to the First year of this programme after successfully completing Junior Matriculation. They will be enrolled directly in the Faculty of Medicine and at the same time in the Faculty of Arts and Science. In exceptional circumstances students will be admitted to the Second year of the seven-year course when they have obtained high standing in Senior Matriculation. A joint committee of the two Faculties concerned will select the successful candidates.

DESCRIPTION OF COURSE

Duration: Seven years from Junior Matriculation, six years from Senior Matriculation.

Degrees: B.Sc. (after 5 years), M.D., C.M. (after 7 years).

First year: Chemistry, Physics, Mathematics, Biology and two electives.

Second year: Organic Chemistry and five electives.

Third year: Anatomy (not including Head and Neck) and three electives.

Fourth year: First year Medicine (omitting Anatomy) and two electives. Fifth, Sixth and Seventh years: Last three years of standard medical curriculum.

One course in English, not necessarily a First year course, will be required at some time during the first four years.

Elective courses must be selected so as to meet the requirements for the degree of B.Sc.

APPLICATION FOR ADMISSION

Application should be made by March 1, 1964 to the Director of Admissions of McGill University, Montreal 2, Canada. Application forms may be obtained from the Registrar's Office or the Admissions Office.

B. FOUR-YEAR COURSE IN MEDICINE

REQUIREMENTS FOR ENTRANCE

1. (a) Total Academic Credits: The minimum requirement for admission to the medical course is the satisfactory completion of three full years of study in a recognized college or Faculty of Arts and Science in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. Preference is given to those who have completed the work leading to a B.A. or B.Sc. degree.

(b) Scientific Requirements: In the scientific branches, certain subjects are specifically required:

specifically required:

Chemistry, two full courses, including General Chemistry and Organic Chemistry, with laboratory work.

Physics, one year with laboratory work.

Biology, or Zoology, one year with laboratory work. (Of this, a half year must consist of Zoology.)

(c) Cultural Requirements: These must be selected in such a way as to be in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. These would commonly include credits in English Literature and Composition and in Mathematics. It is advisable for each applicant to present evidence of such preparation.

(d) All candidates for admission to the Medical Faculty are required to take the Medical College Admission Test conducted by the Psychological Corporation (304 East 45th Street, New York 17, N.Y.) or furnish an explanation of why they are unable to do so. This test should be taken not later than the spring of the Third year of the college course.

2. In selecting courses, in addition to the specific requirements listed above, the intending medical student should plan his pre-medical course as a whole, and in accordance with a definite educational objective. Emphasis should be laid on the broad educational value and the intellectual training afforded, rather than on the factual content of such pre-medical curricula; the student is therefore advised to plan his course in such a way as to provide more than elementary training in some definite field of learning which appeals to him; this major field may be selected from the Natural or the Social Sciences or the Humanities. Certain subjects which though not essential have been found valuable in medical study, and which may be included as electives if the curriculum in the major field permits, are Psychology, Sociology, and Genetics.

In general, students are advised not to anticipate medical school courses in Physiology, Histology, Bacteriology, and Biochemistry at the expense of a fundamental training as outlined above.

On the other hand, for students who desire a preparation in excess of the minimum requirements, a considerable degree of specialization in the sciences, such as Honours graduation, or a Master's degree, in Physics, Chemistry, Biochemistry, Biology, Physiology, or Bacteriology, may prove to be desirable and advantageous.

The students' attention is called to the memorandum printed in the Announcement of the Faculty of Arts and Science, for the guidance of students who wish to enter Medicine.

Candidates for admission shall furnish evidence that they have satisfied the matriculation requirements of the Licensing Body in the region where they wish to practise. This provision applies to Canadian candidates only.

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A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official Statement of his preliminary education and of the medical course he has followed and the standing he has obtained. This should be accompanied by a calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

The equivalent courses of study in schools accepted by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the accepted school, but the student may be required to pass such examinations, individual or comprehensive, as may be required by the Faculty.

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Assistant Dean of the Faculty or the Registrar's Office.

As the number of students in each class is limited, application should be made early and in any case not later than January 1. Each application must be accompanied by a non-returnable fee of \$5.00 in the form of a cheque or money order

payable to McGill University.

A fee of \$50.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Assistant Dean, when possible, is advisable.

REGISTRATION

Students in the Faculty of Medicine will register at the Registrar's Office in Dawson Hall on Friday, August 30 or Tuesday, September 3, 1963. Those who register late will be required to pay a late registration fee of \$5.00 if they register during the first week of the session and \$10.00 if they register during the second. The fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

FEES

The University reserves the right to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions described in the General Announcement.

UNIVERSITY FEES

1.	Double Course in Science and Medicine First and Second years. Third to Seventh years.		\$480.00 \$605.00
2.	Four-Year Course in Medicine Annual fee (including Student's Society and Medical Students' Journal fees) If paid in two instalments:		\$605.00
	First year only — First instalment, on registration Instalment fee	\$302.50 2.50	
	Less half deposit	305.00 25.00	\$280.00
	Second instalment, January 15. Second and Third years, each instalment. Fourth year, each instalment.	Medical of study, a	\$280.00 \$305.00 \$307.50
3.	REPEATING STUDENTS Students repeating a year pay full fees.		

DATES OF PAYMENT

AD EUNDEM FEE

Fees are due and payable at the Chief Accountant's Office, Dawson Hall, between the hours of 9 a.m. and 4 p.m. on the following dates:

fee of

Students entering any year above the First, pay a special ad eundem

\$10.00

Friday, August 30, to Friday, September 6, or, if desired, fees may be remitted by mail before the above dates. The second instalment of tuition fees is due and payable on January 15. An additional \$2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the late payment fee.

Immediately after the prescribed dates for the payment of fees the Chief Accountant will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Dean will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

All fees are payable in Canadian currency.

For further information and for a list of special fees see the General Announcement.

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Each student on beginning his studies is required to provide himself with a first-class microscope for laboratory and private study throughout his course. The Medical Faculty has examined a large number of student monocular microscopes of good quality and has selected a model which it feels best suited to student requirements.

This microscope can be purchased from the McGill Book Store at very substantial saving made possible by large scale ordering. It is recommended that students, regardless of their country of origin, avail themselves of this opportunity to purchase a first-class microscope at greatly reduced cost.

The University does not rent microscopes to medical students.

BOARD AND RESIDENCE

For details of board and residence and an estimate of expenses, see the General Announcement.

HEALTH SERVICE

For details of the Health Service and Medical Examinations see the Students' Information Pamphlet.

COURSES FOR THE DEGREE OF M.D., C.M.

The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including

(a) four years of medical study in the University leading to the degree of M.D., C.M.; and

(b) one year of interneship in an approved hospital.

While the Faculty Administration exercises a general supervision of arrangements for interneships, the Faculty of Medicine assumes no responsibility to provide an interneship for any student.

A certificate that his medical education is completed and that he is eligible to sit for the examination of a licensing board shall not be issued to any graduate until the University is in possession of satisfactory evidence that he has completed the full requirements.

The sessions usually begin the first Wednesday after the first Monday in September (Labour Day). In the first three years, the session continues until the middle of June, but the final year is completed in time for the degree of M.D., C.M. to be awarded at the regular University Convocation at the end of May.

The arrangement of the principal subjects of instruction is usually as follows:

FIRST SESSION

Anatomy (including Embryology), Histology, Physiology, Biochemistry, Child Development and Human Relations, Introduction to Medicine, General Pathology, History of Medicine.

SECOND SESSION

Central Nervous System (Anatomy, Neuroanatomy, Neurophysiology, Psychology), Medical Microbiology, Laboratory Diagnosis, Medicine, Surgery, Obstetrics, Health and Social Medicine, Pharmacology, Psychiatry, Special Pathology, Radiology, History of Medicine.

THIRD SESSION

Health and Social Medicine, Medicine, Surgery, Obstetrics and Gynaecology, Medical Jurisprudence, Neurology and Neurosurgery, Paediatrics, Psychiatry, Ophthalmology, Oto-laryngology, Radiology, Anaesthesia, Electives.

FOURTH SESSION

Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Paediatrics, Ophthalmology, Oto-laryngology, Radiology, Therapeutics.

EXAMINATIONS

The examinations taken within the Medical Faculty are divided into two groups, namely major examinations and minor examinations. Major examinations are the final examinations in Anatomy (Embryology), Histology, Physiology, Biochemistry, Pharmacology, Medical Microbiology, Special Pathology, Public Health and Preventive Medicine (Third year), Paediatrics, Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Central Nervous System.

The examinations in Medicine, Surgery, Obstetrics and Gynaecology, and Psychiatry at the conclusion of the Third Session are ranked as major examinations,

even though they are not the final examinations in these subjects.

Minor examinations include the final examinations in General Pathology, Laboratory Diagnosis and examinations preliminary to the final major examinations.

A student who fails in any major examination will be required, before he sits a supplemental examination, to present to the Dean's office from the senior professor of the Department concerned a certificate that the student has taken sufficient extra tuition as would indicate that he has reviewed the subject and is a suitable candidate for the supplemental examination.

There is a strict difference between the importance of a major and a minor examination. If a student fails in the supplemental of a major examination, there are definite restrictions as shown below, but if he fails in the supplemental of a minor examination he is permitted to carry conditions as shown below.

A student is not allowed supplementals in three major examinations in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student is not allowed supplementals in two major and one minor examination in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

Unless the Promotion Committee finds special mitigating circumstances, a failure in the supplemental of a major examination will require the student to repeat the course (repeat the year), and no student may repeat such a course more than once. Any student who fails in the supplementals of two major examinations in any one year shall be required to retire without the privilege of further supplementals.

A student who fails in the supplementals of three or more minor examinations in any one session must repeat this session or may be asked to retire, as may be decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

A student who fails in the supplementals of not more than two minor examinations may proceed with other subjects in the following year, carrying such subjects as conditions, but may not sit any subsequent major examinations until the conditions have been removed, nor may he carry more than two conditions at one time.

All conditions must be removed by the end of the first term (November) in each session when additional supplemental examinations will be held. Failure in any of these will require the student to revert to the previous year and to repeat the courses of the Winter and Spring terms.

A student in the final year may take a supplemental examination in one subject only, but must present a certificate from the senior professor of the Department concerned that he has taken extra tuition in this subject in one of the teaching hospitals of the McGill Faculty of Medicine. If he should fail in this supplemental examination, he must repeat the year of study and pass all the major examinations at the completion of the session.

A student in the final year who fails in two subjects will not be permitted supplementals but must repeat the year or retire, as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student will not be allowed to repeat a year more than once nor may he repeat a subsequent year if such repetition has been due to failure in examinations, except on special recommendation of the Promotion Committee, acting upon the motion of the representatives on the committee of the Department concerned.

A student who has been permitted to repeat his year shall be required to make a C+grade, which for this purpose is considered to be 65%, or he will not be permitted to continue his course.

Examinations, tests, reviews, etc. will ordinarily be held during the session only at the end of the twelve week terms. It is understood that such examinations, tests or reviews are conducted for the benefit of the student in order that he may have experience in the requirements of the sessional examinations, and further, that he and his teachers may know he is progressing in his studies. In the Fourth year final examinations will be held at the end of each rotation.

There shall be two Promotion Committees. The First Committee shall consist of representatives of the subjects of Anatomy, Biochemistry, Histology, Physiology, Pharmacology, Medical Microbiology and Pathology appointed by the Dean, and the Dean and the Secretary ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the First and Second years.

The Second Committee shall consist of representatives of the Departments of Health and Social Medicine, Medicine, Surgery, Obstetrics and Gynaecology, Paediatrics, and Psychiatry appointed by the Dean, and the Dean and the Secretary ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the Third and Fourth years.

All results of examinations will be given out by the Dean's office, after they have been passed upon by the Promotion Committee. It is an absolute rule that no examination results shall be communicated by any other channel.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent. There can be no appeal from this decision.

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At the conclusion of each course, students are graded in five groups as follows:

E = Failure

A = Excellent C = Fair B = Good D = Doubtful

In reporting the grading, the names of those students who attain "A" standing are arranged in order of merit; in all other grades the arrangement is alphabetical.

By regulation of the Faculty of Medicine, a student is not permitted more than one "D" grade in the examinations of a single year. In the presence of other "D" or "E" grades all "D" grades are automatically converted into failures by the Promotion Committees.

The grade assigned to a student is based upon the results of the Final Examination, but the instructor also takes into account the record of the work done through-

out the course.

The quality of the English used by a candidate is taken into account in determining his standing in all examinations.

REQUIREMENTS FOR THE DEGREE OF M.D.,C.M.

1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.

2. He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than nine months each in this University or in some other university, college or school of Medicine, approved by this University.

3. No one is permitted to become a candidate for the degree who has not

attended at least two full sessions at this University.

4. Every candidate for the degree must have passed all the required examina-

tions in the subjects comprising the Medical course.

5. He must have attended the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University and the practice of the Montreal Children's Hospital; and must have acted as clinical clerk in Medicine, Surgery, Paediatrics and Psychiatry and have fully reported upon the prescribed number of cases.

6. He must also have attended the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least

twenty cases.

7. Every candidate must also have administered anaesthetics, under direction, at least six times, and have assisted at not less than six autopsies.

REQUIREMENTS FOR LICENCE

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each one of the United States the right of licensing is vested in a Licensing Body which has its special laws and requirements; in many cases a special standard of general education is insisted upon before beginning the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained.

N.B. — In order that disappointment and loss of time may be avoided, the University requires Canadian students to register with the licensing body of their

home province before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:

QUEBEC — Dr. Gérald LaSalle, 1896 Dorchester St. West, Montreal 25, P.Q.

ONTARIO — Dr. J. C. C. Dawson, 174 St. George St., Toronto 5, Ont.

NEW BRUNSWICK — Dr. John R. Nugent, 112 Carleton St., Saint John, N.B. Nova Scotia — Dr. M. R. Macdonald, Victoria General Hospital, Halifax, N.S.

PRINCE EDWARD ISLAND — Dr. R. G. Lea, 170 Fitzroy St., Charlottetown, P.E.I. MANITOBA — Dr. M. T. Macfarland, 601 Medical Arts Building, 404 Graham Ave., Winnipeg 1, Man.

ALBERTA — Dr. W. Bramley-Moore, 503 Alexandra Bldg., Edmonton, Alta. Saskatchewan — Dr. G. W. Peacock, 932 Spadina Crescent E., Saskatoon, Sask.

BRITISH COLUMBIA — Dr. Lynn Gunn, 1807 West 10th Avenue, Vancouver 9, B.C.

NEWFOUNDLAND - Dr. Cluny Macpherson, P.O. Box 5279, St. John's, Nfld.

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In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, 77 Metcalfe Street, Ottawa 4, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance at lectures, practical work, and clinics are also accepted by the various examining boards in Great Britain.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

GRADUATE COURSES LEADING TO DIPLOMAS IN THE CLINICAL DEPARTMENTS OF THE FACULTY OF MEDICINE

The Faculty of Medicine conducts graduate courses leading to Diplomas in Anaesthesia, Neurology and Neurosurgery, Psychiatry, Radiology and Urology.

ENQUIRIES

Initial enquiries and enquiries of a general nature should be addressed to the Secretary of the Faculty of Medicine.

Enquiries about the details of individual Diploma Courses should be addressed to the Chairman of the Department concerned.

REQUIREMENTS FOR ENTRANCE

The minimum requirements for entrance to a Diploma Course are (a) a degree from an approved Medical College or School and (b) at least one year's interneship. Details of the requirements are set forth under the individual Diplomas.

Credit may be given for study completed elsewhere than at McGill University, but to qualify for a Diploma, the student must spend at least two years of graduate study and training in a clinical department of the Faculty of Medicine of McGill University.

APPLICATION FOR ADMISSION

Application forms may be obtained from the Secretary of the Faculty of Medicine or the Chairman of the Department concerned. The completed form should be submitted by the candidate to the Chairman of the appropriate Department. If the application is approved by the Department, this form is then sent to the Dean of the Faculty of Medicine for his approval.

FEES

There is a registration fee of ten dollars to be paid each year on registration except when the student is enrolled in the Faculty of Graduate Studies and Research.

Certain of the Diploma Courses require the payment of fees in addition to the annual registration fee. Detailed information concerning these fees may be obtained by writing the Chairman of the Department concerned.

REGISTRATION

The various Diploma Courses in the clinical departments of the Faculty of Medicine lead to the award of diplomas by McGill University. Every student enrolled in such a course must therefore be registered as a student of McGill University.

On beginning the actual course of study leading to a Diploma the candidate must complete three copies of the Sessional Application Form. These are obtainable from the Secretary of the Faculty of Medicine or the Chairman of the Department concerned. These forms, completed by the student in triplicate, are submitted to the Chairman of the Department for his signature and then to the Dean of the Faculty of Medicine for his signature. One of the three forms will be retained by the Dean and the other two are to be taken by the candidate to the office of the Registrar of McGill University. Following registration at the Registrar's Office the candidate must proceed to the Cashier's Department to pay such fees as may be required. After registration and payment of fees have been completed the student returns one copy of the form to the Chairman of the Department and keeps the other in his own possession.

These procedures of completion of the Sessional Application Form in triplicate, with signing by the Chairman of the Department and the Dean, registration at the office of the Registrar, and payment of fees must be carried out *annually* at the beginning of each year of the Diploma Course. If the student has been posted to an out-of-town centre for the session involved registration forms will be mailed to him by the Registrar, on request.

The final date for registration is September 1. If a candidate is permitted to begin a Diploma Course later than September 1, registration must be carried out within one month of the commencement of the course.

If, during his academic year, the student is enrolled in the Faculty of Graduate Studies and Research, he must complete the procedures described above in addition to those required by the Faculty of Graduate Studies and Research, except that a registration fee for the Diploma Course is not required for that particular year.

It is the responsibility of the student to ensure that the Sessional Application Forms are completed and that registration and payment of fees are carried out.

ENROLMENT AS PARTIAL STUDENT IN FACULTY OF GRADUATE STUDIES AND RESEARCH

In the case of a student who is not proceeding to an M.Sc. or Ph.D., but for whom the committee in charge, on the recommendation of the tutor, considers it important that the student should spend some time in study in one of the medical sciences, individual arrangements will be made by the Chairman of the Department, either directly or through the student's tutor with the Chairman of the Medical Science concerned. Such students will be enrolled in the Faculty of Graduate Studies and Research and will be governed by the rules and regulations of this Faculty in regard to fees, etc., applicable to partial students.

COURSES OF INSTRUCTION

DEPARTMENT OF ANAESTHESIA

Associate Professor — R. G. B. GILBERT (Chairman)

Wellcome Research Professor — J. G. ROBSON

Assistant Professors — G. F. Brindle, P. R. Bromage, W. G. Cullen, H. T. Davenport, Gladys Ellison, R. S. Ferguson, A. B. Noble, D. J. Power, J. B. I. Sutherland.

Lecturers — J. J. KELLY, A. W. MACDONALD, J. E. WYNANDS.

Demonstrators — D. A. Firth, D. Gillies, E. W. Larking, J. J. McGrath, D. J. L. MacWatt, A. N. Mungall, A. Petrasak, F. A. Robillard, J. K. Rosales, C. A. Sheridan, F. R. H. Wrigley.

UNDERGRADUATE COURSES

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A student in Medicine, before reaching that part of the curriculum which deals with Anaesthesia, will have acquired during the earlier years at the University some incomplete, but important knowledge of Anaesthesia while taking courses in Anatomy, Physiology, Biochemistry, Pharmacology and Pathology.

In the Third year he attends twelve lectures, illustrated by sound films, given by the chairman of the Department. The student is given advice on what to read. An examination may follow the termination of this session.

In the Fourth year a period of one week is spent in the operating room. The student is assigned to an anaesthetist each morning from 8-12 while in the afternoon from 1:30 - 2:30 he attends a didactic session concerning the procedures he has witnessed.

Also in this year the one month "Period of Election" may voluntarily be spent in the Department of Anaesthesia of one of the University hospitals. This presents opportunity for additional supervised clinical work in the operating room, the recovery room and the intensive care unit.

GRADUATE AND CONTINUING EDUCATION COURSES

Diploma in Angesthesia (Dip. Anges.)

Minimum prerequisites for entry to the Diploma Course in Anaesthesia are a degree from an approved Medical College or School and one year's rotating interneship in an approved hospital. Foreign students may be subject to further requirements, depending on circumstances.

Applications for admission should be addressed to the Chairman, Department of Anaesthesia, McGill University.

The course is of three years duration. Credit may be given up to one year for work done elsewhere. Candidates, once enrolled, may under certain circumstances spend one of the three years at another centre, provided this meets with the approval of the Chairman of the Department. In all instances, to qualify for the Diploma the student must spend at least two years of graduate study in the Department of Anaesthesia of McGill University.

Each student is assigned for clinical work to one of the participating hospitals. Having spent six or twelve months in the hospital to which he was first posted, the student is then rotated every six months through a number of hospitals within this framework. Some of the hospitals are specialized while others are general.

During each appointment of six months, the Residents are directed by the staff members of the particular hospital where that residency is being served. Seminars are held weekly according to a programme which is the same for all

hospitals. Some departments hold sessions which are set aside for review of the literature, while others have special sessions for the discussion of interesting cases. All the hospitals have excellent library facilities, and the libraries of the medical faculty are also accessible.

Every Monday evening a meeting is held for all the anaesthetists in the city, and any visitors who wish to attend. The students on the course are required to be present. At these meetings there may be a guest speaker, or reports of interesting cases. At each meeting one of the members of the Diploma Course reads a twenty minute summary of a specially prepared essay. These essays form one of the requirements of the course, the preparation of which teaches the use of the library and the critical appraisal of the literature, while the delivery is a useful experience in public speaking.

Certain senior members of the Department of Anaesthesia who also hold appointments in the Basic Science departments give the Basic Science lectures. Their lectures are specifically fashioned to teach Applied Basic Science as related to Anaesthesia. In the First year, a graduate student will take Anatomy and Pharmacology, in the Second year Physiology and Biochemistry, while in the Third year the whole relationship of the Basic Sciences to Anaesthesia will be reviewed by systems in an integrated manner. Examinations are held at the discretion of those in charge of the Basic Science courses.

Within the Department of Anaesthesia at McGill University is an Anaesthesia Research Department which is generously financed by the Wellcome Trust. This Department is directed by Professor J. G. Robson. Professor Robson plays an important part in the academic teaching of members of the course.

The fee for the course is \$75.00 per annum, payable at the commencement of each year to the Accounting Department of McGill University.

The granting of the Diploma is subject to complete satisfaction in all the clinical rotations and Applied Basic Science courses. The Chairman and Chiefs of Clinical Departments reserve the right to dismiss at any time all those whose work is unsatisfactory or who appear to have chosen the wrong medical specialty.

Further information may be obtained by writing the Chairman, Department of Anaesthesia, McGill University.

Revision and Refresher Course

A one-week revision and refresher course in Anaesthesia is conducted in September for those sitting examinations and for general practitioners engaged in Anaesthesia.

Information about this course may be obtained by writing the Chairman, Department of Anaesthesia, McGill University.

DEPARTMENT OF ANATOMY

Professor — C. P. LEBLOND (Chairman), J. LANGMAN.

Associate Professors — S. M. BANFILL, Y. CLERMONT.

Assistant Professors — N. J. NADLER, E. SANDBORN.

Hon. Lecturers — G. Andrew, E. P. Aston, G. F. Brindle, J. Ward.

Lecturers - B. Perey, H. Van Heyningen, E. W. Workman, B. A. Young.

Research Associate — M. ENESCO.

Teaching Fellow — B. R. M. FITZGERALD.

REQUIRED COURSES

1. Gross Anatomy.

First year: Dissection and lectures cover the gross anatomy of the body except the

Head, Neck and Brain. The course includes Embryology and Surface and Radiological Anatomy.

Second year: Dissection and lectures on the Head, Neck and Brain. This course is followed by 2. Introduction to the Central Nervous System, listed below, and a combined examination is held at the end of the year.

- 2. Introduction to the Central Nervous System. For Second year students and conducted with the co-operation of the Departments of Neurology and Neurosurgery, Physiology and Psychology. This course is listed under the Department of Neurology and Neurosurgery as 2A.
 - 3. Applied Anatomy. Designed for graduate students.

Textbooks: J. C. B. Grant, A Method of Anatomy, 6th ed. (Williams and Wilkins, 1958). D. F. Davies and F. Davies, Gray's Anatomy, 33rd ed. (Longmans 1962).

Atlas: J. C. B. Grant, An Atlas of Anatomy, 5th ed. (Williams and Wilkins, 1962).

Practical Manual: J. T. Aitken et al., A Manual of Human Anatomy, 5 vols. (Livingstone 1956-58).

Surface Anatomy: A. B. Appleton et al., Surface and Radiological Anatomy, 4th ed. (Heffer 1958).

Introduction to Medicine. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry and Physiology, in rotation.

ELECTIVE COURSES

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The Department provides, as far as material will permit, facilities for advanced work or revision. The Chairman of the Department should be consulted by anyone wishing to undertake work of this nature.

4. Advanced Neuro-Anatomy. Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton. The class is limited to ten. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.

Microscopic Anatomy

REQUIRED COURSE

Histology. The study of the cytology and structure of tissues and organs.
 Textbooks: A. W. Ham and T. S. Leeson, Histology, 4th ed. (Lippincott, 1961);

 W. Bloom and D. W. Fawcett, A Textbook of Histology, 8th ed. (Saunders, 1962).

Embryology

REQUIRED COURSE

8. The Study of Human Developmental Anatomy. This course is integrated with 1. Gross Anatomy.

Textbooks: J. Langman, Medical Embryology, (Williams and Wilkins 1963); L. A. Arey, Developmental Anatomy, 6th ed. (Saunders 1954); W. J. Hamilton et al., Human Embryology, 2nd ed. (Heffer 1952).

For graduate courses, see Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF BACTERIOLOGY AND IMMUNOLOGY

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Professors — R. W. REED (Chairman), J. W. STEVENSON.

Associate Professors — C. A. BUTAS, G. G. KALZ.

Assistant Professors — P. M. Cooke, M. Franklin, A. M. Masson, B. H. Matheson, S. I. Vas.

Lecturers — L. Kapica, E. Mankiewicz, S. Nommik, F. Prissick, R. Silov. Teaching Fellow — M. Perreault.

All lectures and laboratory courses are given in the Department of Bacteriology, Pathological Institute.

20. Medical Microbiology. This course deals with the general principles of medical microbiology and immunology.

For other undergraduate courses in Faculty of Arts and Science, see Announce-

ment of that Faculty.

For graduate courses, see Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF BIOCHEMISTRY

Professors — K. A. C. ELLIOTT (Chairman), O. F. DENSTEDT, J. H. QUASTEL, D. L. THOMSON.

Associate Professors — M. SAFFRAN, P. G. SCHOLEFIELD, S. SOLOMON.

Assistant Professors — ESAU HOSEIN, ROSE M. JOHNSTONE, D. RUBINSTEIN, C. C. SOLOMONS.

Lecturers - ELEANOR HARPUR, J. H. SPENCER.

FIRST YEAR

Biochemistry-Physiology 1. Mon. to Fri., at 9 a.m.

Biochemistry-Physiology 1L.

Laboratory: six hours a week.

Biochemistry-Physiology 1D. Demonstrations and tutorials. This is an integrated course of lectures, tutorials, demonstrations and laboratory work given jointly by the two departments.

One hour per week.

Introduction to Medicine. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry, and Physiology, in rotation.

One hour per week from October.

THIRD YEAR ELECTIVE

3E. Research in Biochemistry and Physiology. A limited number of students may take Biochemistry or Physiology as their elective subject in the Third year. These students will be given the opportunity to participate in research projects in the Department.

OPTIONAL ADDITIONAL COURSES

For students who are interested in additional studies in Biochemistry the following courses are recommended:

45. Metabolism. The nature of biological oxidations and reductions and the enzymes concerned therewith, especially from the point of view of transfer of energy; the intermediary metabolism of organic foodstuffs; the hormonal control of metabolism.

First term: 2 hours Second term: 3 hours

601-701. Specialties and Recent Advances in Biochemistry. In this course groups of lectures will outline special fields of Biochemistry in which advances have been rapid. The content of the course will change from year to year.

One hour.

This course is open only to students who have previously taken advanced courses in Biochemistry.

OTHER COURSES

For other undergraduate courses in Faculty of Arts and Science, see Announcement of that Faculty. For graduate courses, see Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF HEALTH AND SOCIAL MEDICINE

Strathcona Professor ---

Associate Professors — D. S. Fleming, C. W. MacMillan, Margaret E. Nix. Assistant Professor — MARIAN BAIN.

Lecturers - D. Bews, H. E. Burke, F. M. Jones, Milton G. Townsend, FREDERICK WIENER.

Demonstrators — EDITH M. MANKIEWICZ, M. A. HICKEY.

FIRST YEAR

Medical Statistics.

C. W. MacMillan

12 lectures.

SECOND YEAR

Public Health & Preventive Medicine. Public Health Organization and Administration, Vital Statistics, Principles of Epidemiology, Nutrition, Health Education. 24 lectures; nine demonstrations (2½ hours each).

THIRD YEAR

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Public Health and Preventive Medicine. Applied Epidemiology, Industrial Toxicology, Prevention and Control of specific diseases.

12 lectures; 12 concentration periods (2½ hours each).

Text and Reference Books: M. J. Rosenau, Preventive Medicine and Public Health, ed. by K. F. Maxcy, 8th ed. (Appleton, 1956); H. S. Mustard and E. L. Stebbins, Introduction to Public Health, 4th ed. (Macmillan, New York, 1959); H. R. Leavell and E. G. Clark, Preventive Medicine for the Doctor in his Community, 2nd ed. (McGraw-Hill, 1958); W. Hobson, The Theory and Practice of Public Health, (Oxford University Press).

Medical Ethics and Jurisprudence

The course in Medical Ethics and Jurisprudence consists of 12 lectures, given to the class as a whole, in the spring term of the Second year.

HISTORY OF MEDICINE

Professor — LLOYD G. STEVENSON.

REQUIRED COURSES

- 1. Introductory Course (First year). A series of 12 lectures to provide an historical orientation to the student entering upon the study of medicine.
- 2. History of Medicine (Second year). A series of 12 lectures providing a survey of the history of relationships between medicine and general culture.

DEPARTMENT OF INVESTIGATIVE MEDICINE

Professor — J. S. L. BROWNE (Chairman).

Associate Professor — C. J.-P. GIROUD.

Assistant Professors — A. CARBALLEIRA, N. KALANT.

Research Associate — S. SOLOMON.

Honorary Lecturer — J. GENEST.

Lecturers — IVAN BECK, C. I. CHAPPEL, R. SCHUCHER, R. WOLFE.

The Department offers courses leading to the degrees of M.Sc. and Ph.D. in the Faculty of Graduate Studies and Research and provides research facilities for these students or for other persons proceeding to graduate degrees, diplomas or for other qualified individuals. The Department is also prepared to make arrangements to offer elective courses for Medical undergraduate students.

The courses and the direction of research in this department are given in close collaboration with the Department of Experimental Medicine and members of either department give lectures and direct the research of graduate students registered

in the other.

Students may work either in the Medical Building or in one of a number of hospitals depending on the type of work done (clinical or laboratory) or upon the individual directing the research. Part of the function of the department is the correlation of clinical investigation being done at various hospitals.

Students holding either the M.D. or B.Sc. degree or its equivalent may enter the department provided that their standing is acceptable. For the list of courses and further details see the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF MEDICINE

Professors — RONALD V. CHRISTIE (Chairman), D. G. CAMERON.

Associate Professors—D. V. Bates, J. C. Beck, E. H. Bensley, G. A. Copping, R. R. Forsey, G. W. Halpenny, W. H. P. Hill, M. M. Hoffman, J. G. Howlett, A. L. Johnson, Louis Lowenstein, M. McGregor, H. S. Mitchell, Bram Rose, S. R. Townsend.

Assistant Professors — L. J. Adams, R. C. Bennetts, F. M. Bourne, H. E. Burke, G. E. Craig, J. B. Dossetor, A. F. Fowler,

C. H. HOLLENBERG, L. G. JOHNSON, F. KALZ, LESTER MCCALLUM,

E. E. McGarry, R. D. McKenna, J. M. McKenzie, K. R. MacKenzie, J. F. Meakins, I. G. Milne, C. J. Pattee, E. A. S. Reid, M. Richter, L. Shapiro, P. B. Stewart, A. T. Thom.

Lecturers — M. Aronovitch, C. M. Ballem, C. S. Barker, R. G. Baxter, J. O. W. Brabander, J. L. Brandt, S. Brown, Lauder Brunton, Lloyd Caswell, R. A. Cleghorn, William Cohen, B. A. Cooper, J. H. Darragh, N. K. DeLeeuw, P. A. Edwards, S. O. Freedman, A. Gold,

ALEC GORDON, R. G. M HARBERT, G. E. JORON, M. KAYE, D. G. KINNEAR, A. KNIGHT, L. KOVACS, A. W. LAPIN, W. LEITH, B. A. LEVITAN, A. D. MACDONALD, C. C. MACDONALD, D. J. MACINTOSH, J. R. MARTIN, A. MILLER, J. A. P. PARÉ, R. E. G. PLACE, J. S. POLSON, T. L. QUINTIN, PAULA SCHOPFLOCHER, J. A. SHANKS, K. A. SOWDEN, C. H. STACEY, R. L. STANFORD, DAVID STUBINGTON, P. P. TELNER, P. G. WEIL, G. E. WIGHT, D. H. WOODHOUSE.

Demonstrators — J. R. Albert, Eva Arendt, A. Aronoff, David Barza, I. T. Beck, T. A. Brown, Parker Chesney, M. S. Cohen, S. R. Cooper, R. F. P. Cronin, S. Eidinger, C. M. Flint, P. A. Flint, C. A. Goresky, T. R. Hale, Allan Hickey, J. L. Hutchison, A. G. Kendall, L. J. Korenberg, M. Kunstler, W. A. R. Laing, I. Lapin, W. K. Macdonald, D. G. Mackay, D. M. Marcus, W. E. H. Mason, T. Monks, W. H. Palmer, Bernard Pollak, L. Redmond, S. L. Richardson, Jack E. Rubin, P. Sommerfreund, A. Shulman, K. R. Stewart, T. J. Sullivan, E. A. Turcot, J. Wener, I. Winkler, D. Wiselberg, J. C. G. Young.

Experimental Medicine

Professors — Francis P. Chinard, Eleanor H. Venning.

Associate Professors — RONALD HOBKIRK, SAMUEL SOLOMON.

Assistant Professors — Margaret R. Becklake, D. G. Johns, B. Kovacs, Maxwell Richter, David Rubinstein, D. B. Tonks, W. A. Young.

N.B. See Announcement of the Faculty of Graduate Studies and Research.

THE UNDERGRADUATE CURRICULUM IN THE DEPARTMENT OF MEDICINE

FOREWORD

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The object of the following courses is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease, to afford a knowledge of the technique, and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students, teachers, and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy, and biochemistry with clinical medicine is emphasized—not only in the pre-clinical years, but later in hospital and laboratory—thus affording students a modern scientific medical training. The importance of regarding the patient as a person is emphasized throughout.

Unusual facilities are afforded at the Royal Victoria Hospital and at the Montreal General Hospital where there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

REQUIRED COURSES

SECOND YEAR

Course II 1—Integration of Physiology, Biochemistry and Anatomy with Medicine.

Time — Last term of Second year: three lectures a week.

Place — Medical Building.

Subject Material — This course covers in a systematic manner the deviations from the normal of the physiological and biochemical functions. These are correlated so as to explain symptoms and signs which may be found on physical examination as detected by clinical methods dealt with in Course II 2. This course is so

interpreted as to give the student a panoramic view of these disturbances with a proper perspective.

Course II 2-A Practical Course in Clinical Methods.

Time — Third term of Second year.

Place — The Royal Victoria, Montreal General, and Queen Mary Veterans' Hospitals.

Subject — Practical instruction 6 hours a week on Normal and Abnormal Physical Signs.

Course II 3—Laboratory Diagnosis.

Time — Last term of Second year.

Place — Medical Building.

Subject — Instruction and practice 2 periods a week in microscopy as applied to clinical medicine.

Dr. Lauder Brunton and Assistants

THIRD YEAR

Course III 4—Case Reporting

During the trimester in Medicine students will be assigned patients in the wards. They will be required to write case histories, make a general examination, note progress, and do such laboratory investigations as are within their scope and have access to all other Laboratory and X-Ray findings. Teaching Fellows will be available to assist students in this work. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

Course III 5—Clinico-Pathological Conference

Time — Weekly during the medical term.

Place — The Royal Victoria and the Montreal General Hospitals.

Course III 6. Integration of Physiology, Biochemistry and Anatomy with Medicine — a continuation of course II.

One lecture a week for 2 terms, two lectures a week for the third term.

Course III 7—Therapeutics. A course of lectures on the principles of therapeutics and on the treatment of various diseases for which clinical material is not readily available.

FOURTH YEAR

Course IV 8—Case Reporting. An effort is made to enable the student in the Fourth year to take an active part in the care of the patient, both in the wards and in the Out-door Clinics. One month will be spent on the wards and one month in the "Comprehensive Clinic" of the outpatient department. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

Course IV 9—Clinical Pathological Conference.

Time — Once a week during the medical term.

Place — The Royal Victoria and the Montreal General Hospitals.

For graduate courses in Medicine, see under Department of Investigative Medicine in this Announcement and under Department of Experimental Medicine in Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

Professor of Neurology and Neurosurgery — Theodore Rasmussen (Chairman).

Professor of Neurology — Francis McNaughton.

W. V. Cone Professor of Neurosurgery — WILLIAM FEINDEL.

Professor of Experimental Neurology — HERBERT JASPER.

Professor (Biochemistry) and Director Donner

Laboratory of Neurochemistry — K. A. C. ELLIOTT.

Associate Professors of Neurology — D. L. LLOYD-SMITH, PRESTON ROBB.

Associate Professors of Neurosurgery — ARTHUR ELVIDGE, JOSEPH STRATFORD.

Associate Professor of Neurological Radiology — DONALD MCRAE.

Assistant Professors of Neurology — J. B. R Cosgrove, D. E. Howell, Reuben Rabinovitch, W. F. T. Tatlow.

Assistant Professor of Neuropathology — GORDON MATHIESON.

Assistant Professors of Neurosurgery — GILLES BERTRAND, JOHN BLUNDELL, CHARLES BRANCH, HAROLD ELLIOTT.

Assistant Professor of Experimental Neurology — PIERRE GLOOR.

Assistant Professor of Neurochemistry — LEONHARD WOLFE.

Assistant Professor of Clinical Psychology — Brenda Milner.

Lecturers in Neurology — Bernard Graham, Irving Heller, Allan Sherwin. Lecturer in Neurological Radiology — R. Ethier.

Lecturer in Neurosurgery — PHANOR PEROT.

Lecturer in Experimental Neurology — HANNA PAPPIUS.

Demonstrators in Neurology — M. H. Finlayson, M. Gueramy, I. Lewis, R. S. McPhedran, Allan Morton.

Demonstrators in Neurosurgery — H. Garretson, Rosario Musella, Jewell Osterholm.

Demonstrators in Electroencephalography — Lewis Henderson, O. Kalaby.

Research Associates — Catherine MacPherson, Kenneth Reid, Nicholas Rumin, Lucas Yamamoto.

Research Assistant — L. B. TAYLOR.

Fellows of the Montreal Neurological Institute — Tadeusz Bacia, Diwan Bhathal, Gastone Celesia, Flavio Coceani, Santiago Crisostomo, Lloyd Dayes, Josefina Del Mundo Vallarta, Patrice Drouin, Andrew Eisen, Ahmed El Banhawy, Osamah Elwan, Milan Felt, Morrison Finlayson, Henry Garretson, Andrey Gluszcz, Anthony Gorman, Manoucher Gueramy, Robert Hansebout, Robert Herndon, Marius Heuff, Robert Jordan, Orhan Kalabay, Nicola Katf, Irwin Lewis, Luis Marco, Falah Maroun, Shigeaki Matsuoka, Rosario Musella, Robert McPhedran, Jewell Osterholm, Daniel Pollen, Foster Redding, Marc St. Hilaire, Sumargo Sastrodiwirjo, Mario Sculco, Pek Giok Sie, Herbert Silfvenius, Orlando Solis-Quiroga, Costas Stefanis, Roy Steinberg, Bryce Weir, Andrew Wong, Chong-Bun Yap, Aydin Yurtcu.

SECOND YEAR

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2A Introduction to the Central Nervous System. Combined course given by the Departments of Anatomy, Neurology and Neurosurgery, Physiology and Psychology. Two hours lecture, three hours laboratory and one hour demonstration per week, during the second term and two hours lecture per week during the third term.

Professors McNaughton, Jasper, Burns and Hebb

2B Instruction in Clinical Examination of the Nervous System. Given in conjunction with the Department of Medicine in the third term.

2C Neuropathology. Given in conjunction with the Department of Pathology in the third term.

Professor Mathieson

2D Applied Physiology (Department of Medicine). Six lectures.

Professors Rasmussen, McNaughton and Staff

THIRD YEAR

3A Clerkship in Neurology and Neurosurgery. Four afternoons per week for three weeks, at the Montreal Neurological Institute.

Professors Rasmussen, McNaughton and Staff

3B Survey Lectures, Diseases of the Nervous System. 12 lectures given during the first term.

Professors Rasmussen, McNaughton and Staff

3C Clinics and Conferences in Conjunction with the Departments of Medicine and Surgery.

FOURTH YEAR

Clinics and Conferences in Conjunction with the Departments of Medicine and Surgery.

ELECTIVE COURSES

A. Seminar in Neuroanatomy, M.N.I.

1. This course is given in combination with course 2A "Introduction to the Central Nervous System."

2. Additional graduate seminars will be held co-ordinated with Course B.

3. Graduate students are expected to act as demonstrators and to pass the same examination which is given in undergraduate course 2A, but with higher standing.

Professor McNaughton

4. Advanced Neuroanatomy for selected group; times to be arranged.

Professor McNaughton

B. Seminar in Neurophysiology.

1. Lectures and examination together with undergraduate course 2A "Introduction to the Central Nervous System."

2. Weekly seminars and demonstrations co-ordinated with Course A-2 (4 months, beginning in December). Mondays, 4:30 to 6:00 p.m.

3. Under exceptional circumstances, a paper on a neuro-physiological subject may be written by special arrangement as a substitute for B-1.

Professors Jasper, Elliott and Gloor

C. Colloquium in Clinical Neurology.

1 hour weekly, clinics and lectures, Wednesdays, 5:00 p.m. M.N.I. (9 months).

Staff and Visiting Lecturers

D. Seizure Mechanisms and Cerebral Localization: Clinical Electroencephalographic, and Roentgenographic Conference.

M.N.I. 1½ hours weekly (9 months). Tuesdays, 4:00 to 5:30 p.m.

Professors Rasmussen, Jasper, McNaughton and McRae

E. Outline of Neurochemistry.

Instruction in Neurochemistry in addition to that provided in course B-2 may be obtained by special arrangement.

Professor Elliott

F. Neuropathology.

1. Six months laboratory work in Neuropathology.

Professors Mathieson and Bertrand

2. Conference in Neuropathology, Thursdays, 4-5 p.m.

Professors Mathieson and Bertrand

3. Introduction to Histopathology of the Nervous System. A short basic course for a limited number. By special arrangement with Professor Mathieson.

For graduate credit, courses Nos. 1 and 2 are required. Under special circumstances written and/or oral examinations may be substituted for Nos. 1 and 2 for students who have taken course No. 3.

G. Neurological Radiology.

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1. Lecture demonstrations (3 months beginning in September). Mondays 4:30 to 6:00 p.m.

2. Colloquium, 1 hour weekly (9 months) Mondays, 9:00 a.m.

Professor McRae

Diploma in Neurology (Dip. Neurol.)

Minimum prerequisites for entry to the Diploma Course in Neurology are a degree from an approved Medical College or School and one year's interneship in an approved hospital.

Applications for admission should be addressed to the Chairman, Department of Neurology and Neurosurgery, McGill University.

The course is of four years' duration and consists of the following units:

A. One year of work in one of the related basic sciences, such as Neuropathology, Neurophysiology (including E.E.G.), Neuroanatomy, Neurochemistry, Neuroradiology, Endocrinology, etc. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery, or in some other department of McGill University on the recommendation of the Chief of the Service and with the approval of the Chairman of the Department of Neurology and Neurosurgery. Preparation of a thesis or a paper approved for submission for publication by the Laboratory Chief and the Professor of Neurology and Neurosurgery (Dr. Rasmussen), will be required. This year may be used for work toward a Master of Science degree in the Faculty of Graduate Studies and Research of McGill University (see Announcement of the Faculty of Graduate Studies and Research for requirements and registration procedure).

B. Six months in Psychiatry in the Department of Psychiatry at McGill University. (Note: Under special circumstances the candidates may substitute six months in the Department of Psychiatry in some other accredited hospital or university.)

C. Six months in Neurosurgery at the Montreal Neurological Institute. (Note: Under special circumstances a candidate may substitute neurosurgical training received in the neurosurgical department of some other accredited hospital or university.)

D. Two years in clinical Neurology, one of which must be at the Montreal Neurological Institute. The other year may be taken at other neurological centres with the approval of the Professor of Neurology and Neurosurgery and on recommendation of the Chief of the Neurological Service.

Before receiving the Diploma the candidate must successfully pass an oral examination in clinical Neurology and Neurosurgery conducted by an internal and

an external examiner.

Further information may be obtained by writing the Chairman, Department of Neurology and Neurosurgery, McGill University.

Diploma in Neurosurgery (Dip. Neurol. Surg.)

Minimum prerequisites for entry to the Diploma Course in Neurosurgery are a degree from an approved Medical College or School and one year's interneship in an approved hospital.

Applications should be addressed to the Chairman, Department of Neurology

and Neurosurgery, McGill University.

The course is of four years' duration and consists of the following units:

A. One year of work in one of the related basic sciences, such as Neuropathology, Neurophysiology (including E.E.G.), Neuroanatomy, Neuroradiology,

Endocrinology, etc. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery, or in some other department of McGill University on the recommendation of the Chief of the Service and with the approval of the Chairman of the Department of Neurology and Neurosurgery. Preparation of a thesis or a paper approved for submission for publication by the Laboratory Chief and the Professor of Neurology and Neurosurgery (Dr. Rasmussen), will be required. This year may be used for work toward a Master of Science degree in the Faculty of Graduate Studies and Research of McGill University (see Announcement of the Faculty of Graduate Studies and Research for requirements and registration procedure).

B. Six months in clinical Neurology at the Montreal Neurological Institute. (Note: Under special circumstances, credit for six months of clinical Neurology in some other accredited hospital or university department of Neurology may be

accepted.)

C. Six months in special work in a related field such as Neurophysiology, Neuroanatomy, Neuropathology, Biochemistry, Endocrinology, Metabolism, Psychiatry, etc., acceptable to the Chairman of the Department of Neurology and Neurosurgery.

D. Two years in clinical Neurosurgery at the Montreal Neurological Institute. Note: Either unit A or C must be carried out in the Department of Neuro-

pathology at the Montreal Neurological Institute.

Before receiving the Diploma the candidate must successfully pass a final oral examination on clinical Neurology and Neurosurgery conducted by an internal and an external examiner.

Further information may be obtained by writing the Chairman, Department

of Neurology and Neurosurgery, McGill University.

For graduate courses in Neurology and Neurosurgery, see also Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

Professor — G. B. MAUGHAN (Chairman).

Associate Professors — W. R. FOOTE, J. P. A. LATOUR, K. T. MACFARLANE, G. A. SIMPSON.

Assistant Professors — J. L. Macarthur, T. Primrose, D. W. Sparling, F. J. Tweedie.

Lecturers — P. R. Blahey, H. B. Bourne, Grace Donnelly, Simon Gold, M. Hendelman, E. A. MacCallum, Harry Oxorn, J. H. Routledge, P. C. Tremblay, M. H. V. Young.

Demonstrators — G. H. Arronet, J. R. Dodds, W. D. Fraser, J. S. Henry, Jr., C. C. Lindsay, R. M. Parsons, J. Portnuff.

Teaching and Administrative Assistants — R. P. Beck, R. M. H. Power.

Undergraduate Course

The course is designed to impart a fundamental knowledge of the processes of human parturition, gynaecology and the care of the new-born. The student is introduced to the subject in his Second year. Thereafter in both his Third and Fourth years, intensive teaching is carried out using to the full the facilities of the Royal Victoria Montreal Maternity Hospital and to a lesser extent the gynaecological wards of the Montreal General Hospital. The Royal Victoria Montreal Maternity Hospital is the largest teaching unit of its kind in Canada and the clinical material to be found in its wards is unsurpassed.

REQUIRED COURSES

SECOND YEAR

An introductory course of twelve lectures is given by Professor Maughan during the last term. Following a review of the embryology and anatomy of the female genital tract the particular biochemical and endocrine aspects of the subject are taken up. The course closes with a description of the physiology of pregnancy and labour. Lectures are held in the Medical Building, McGill University.

THIRD YEAR

OBSTETRICS

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During this year, twenty-eight lectures are given to teach the fundamentals of pregnancy, labour and the puerperium by the members of the Royal Victoria Montreal Maternity Hospital Staff. Following this series the Montreal General Hospital Staff conduct five lecture classes as an introduction to Gynaecology. Medical Building, McGill University.

An intensive six weeks of instruction in Obstetrics is given each group of students during the academic year by the Staff of the Royal Victoria Montreal Maternity Hospital. Student groups are further divided into smaller tutorial units so that individual students can be given the greatest opportunity to take part in the practical work of the class.

Eighteen hours are devoted to Manikin Instruction. Physical diagnosis at the bedside and Clinical Management in the wards and case rooms are allocated six hours each.

Professor Maughan conducts six seminars on the Principles and Theory of Obstetrics and a further six hours are taken up by the members of the Staff in reviewing current work in the subject.

Six hours of gynaecological colloquia are given by a senior member of the Royal Victoria Montreal Maternity Hospital Staff to augment the gynaecological teaching noted below.

Students are also required to attend Departmental Ward Rounds in the Royal Victoria Montreal Maternity Hospital when interesting cases are discussed and lectures given on the latest advances in the field.

Six classes are given by Doctor G. Nickerson, Paediatrician-in-Chief of the Royal Victoria Hospital and his Staff to introduce the student to the care of the new-born.

GYNAECOLOGY

Two mornings weekly throughout the six weeks are devoted to the teaching of Gynaecology at the Montreal General Hospital. Each teaching day is divided into three parts — (1) student participation groups or outdoor clinic instruction groups, (2) clinical teaching, and (3) didactic lectures. The student participation groups comprise nine periods devoted to the preparation and presentation of an allotted subject from the standard textbooks and current literature, supervised by a member of the teaching staff. The outdoor clinic instruction groups, with two or three students at a time, are intended to teach the techniques and details of gynaecologic examination with an introduction to commonly encountered gynaecologic problems at first hand. The clinical teaching consists of ward rounds, clinical pathological conferences, and the demonstration of minor gynaecologic operative procedures. The didactic lectures cover twelve major topics in Gynaecology.

Professor MacFarlane and Assistants, Montreal General Hospital

FOURTH YEAR

No formal lectures are given during the intensive four week course in Obstetrics and Gynaecology which is held entirely in the Royal Victoria Montreal Maternity

Hospital. Students are coached in small groups and will live in the hospital for at least nine days. While living in, they are expected to participate in the work of the delivery rooms and wards. Written case reports are required and the student's progress is assessed partly on the care taken in the recording of the assigned cases and their follow-up. Teaching is divided between Obstetrics and Gynaecology using the facilities of the indoor and outdoor departments.

An eight hour refresher course in Manikin is given.

Professor Maughan conducts group hospital rounds once a week.

Twenty-four hours are devoted to bedside clinics on antepartum and post-partum management of the obstetrical patient with particular emphasis on the recognition and treatment of complications.

Eight hours of revision seminars.

Doctor Primrose

Sixteen hours are devoted to the discussion of problems presented by the students.

R.V.M.M.H. Staff

Attendance at Outdoor clinics four afternoons a week is compulsory. Minor gynaecology and antepartum care are taught by the Staff members in charge of the cases. Students are also required to be present at Departmental Staff rounds each Wednesday morning during term.

Twelve bedside clinics are given in Gynaecology by members of the Staff.

Eight lecture-demonstrations in Gynaecological Pathology are given by Doctor Latour and assistants who are also responsible for four hours of clinical instruction on the diagnosis and treatment of genital cancer.

Clinical Endocrinology is reviewed in four sessions of one hour.

Textbooks: N. J. Eastman and L. M. Hellman, Obstetrics (Appleton); Jeffcoate, Principles of Gynaecology (Butterworth); F. W. Roques, Diseases of Women, 10th ed. (Arnold 1959).

Graduate Programme

The Department of Obstetrics and Gynaecology directs a five-year graduate programme involving residency training in a number of English-speaking hospitals in Montreal, with lectures and seminars in both pre-clinical and clinical fields and opportunities for research. Minimum prerequisites for entry into this programme are a degree from an approved Medical College or School, one year's rotating interneship, and one year of Surgery or half a year each of Surgery and Medicine at the assistant residency level. Further information may be obtained by writing the Chairman, Department of Obstetrics and Gynaecology, McGill University.

DEPARTMENT OF OPHTHALMOLOGY

Professor — JOHN C. LOCKE (Chairman).

Associate Professors — BENJAMIN ALEXANDER, J. V. V. NICHOLLS.

Assistant Professor - R. J. VIGER.

Lecturers — S. T. Adams, R. A. Bourne, L. S. S. Kirschberg, Sean B. Murphy, William Turnbull.

Demonstrators — J. B. Conroy, Hugh Duncan, J. G. Little, R. W. Pearman, R. B. Ramsey, P. Rosenbaum.

Undergraduate Courses

The undergraduate work in Ophthalmology is designed to meet the needs of a well-trained general practitioner and embraces the following courses:

SECOND YEAR

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1. Routine Examination of the Eye. The various tests used in routine examination of the eye are demonstrated. Instruction in the use of ophthalmoscope is emphasized.

Five hours.

2. Pathology of the Eye. Six hours: two periods of three hours each.

THIRD YEAR

1. Lectures to the Entire Class. A survey of the entire field designed to furnish a background of essential information for the clinical work.

Twelve hours.

- 2. Practical Ophthalmoscopy. Montreal General and Royal Victoria Hospitals. Nine hours.
- 3. Elective Course in Ophthalmology. This intensive four-week course is given three times during the latter half of the Third year. The number of students in any four-week period is limited to two.

The classes include attendance at clinics, ward rounds and seminars; periods in the eye operating room; preparation of an assigned topic requiring consultation of current literature.

FOURTH YEAR

1. Practical Clinical Ophthalmology. Cases from the eye outpatient and indoor services are presented and discussed. Emphasis is on ocular problems that are of greatest moment in general practice.

Nine hours.

Textbooks: Francis H. Adler, Gifford's Textbook of Ophthalmology, 6th ed. (Saunders, 1957); C. A. Perera, May's Manual of the Diseases of the Eye, 22nd ed. (Williams and Wilkins, 1957).

Reference books: W. S. Duke-Elder, Textbook of Ophthalmology, 7 vols. (Mosby, 1932-54); Eugene Wolff, Anatomy of the Eye and Orbit (Blakiston, 1954); Eugene Wolff, Pathology of the Eye, 3rd ed. (Blakiston, 1951); Francis H. Adler, Physiology of the Eye, 3rd ed. (Mosby, 1959).

Graduate Programme

Through the three major teaching hospitals of McGill University, the Department of Ophthalmology conducts a graduate programme of residency training with scheduled lectures, seminars, case presentations and ward rounds. This programme prepares candidates to meet the requirements for Fellowship of the Royal College of Surgeons of Canada and also for the American Board of Ophthalmology. Detailed information concerning this programme may be obtained by writing the Chairman, Department of Ophthalmology, McGill University.

DEPARTMENT OF OTO-LARYNGOLOGY

Professor — W. J. McNally (Chairman).

Associate Professors — R. P. Gannon (Experimental Oto-Laryngology), E. E. Scharfe, E. A. Stuart.

Assistant Professors — H. E. McHugh, E. John Smith.

Lecturers - J. D. BAXTER, ARNOLD GROSSMAN, G. T. SHIMO.

Demonstrators — R. HALL McCoy, R. MacMillan, W. H. Novick.

Undergraduate Courses

Instruction in Oto-Laryngology is given to students in the Second, Third and Fourth years and is designed to meet the needs of the general practitioner. The clinical courses are conducted in the wards and outpatient departments of the Montreal General, the Royal Victoria and the Montreal Children's Hospitals. The practical demonstrations are given before small groups of students.

SECOND YEAR

A special demonstration of Ear, Nose and Throat Anatomy on living subjects is given while the students are studying Anatomy of the Head and Neck. Physical diagnosis is also taught in six demonstrations. The students review the anatomy of the ears, nose and throat and are taught to use the head mirror and the special instruments more commonly used in the examination of these parts.

THIRD YEAR

Clinical instruction in the outdoor clinics and wards is given to small groups in "block time" consisting of consecutive mornings for one week for each group. Twelve lectures on Ear, Nose and Throat subjects are given to this class as a whole during the third term.

FOURTH YEAR

Clinical instruction is carried out in the outpatient departments in small groups and the students are given as much personal supervision as possible. The students attend two clinics per week for eight consecutive weeks and take an active part in the examination and treatment of the patients.

ELECTIVE COURSES

The new curriculum provides for Elective Courses of one month in this specialty.

Graduate Courses

See Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF PAEDIATRICS

Professor — ALAN ROSS (Chairman).

Associate Professors — D. V. Bates, R. L. Denton, A. L. Johnson, E. M. Worden.

Assistant Professors — H. L. BACAL, R. B. GOLDBLOOM, J. H. O'NEILL.

Lecturers — D. K. Clogg, J. H. Elder, F. Clarke Fraser, J. E. Gibbons, Eleanor Harpur, D. A. Hillman, G. H. Nickerson, C. R. Scriver.

Demonstrators — Peter Auld, P. Banister, P. H. Beaudry, M. M. Belmonte, Helen Brickman, H. R. Brodie, J. S. Charters, T. A. Cowan, Victor C. Goldbloom, R. Gourdeau, Elizabeth Hillman, Wanda Jegier, A. J. Markus, D. R. McCrimmon, Sydney Pedvis, Pierre Senecal, M. Silverberg, L. Stern, Hyman Surchin, W. W. Tidmarsh, Robert Usher, Isobel Wright.

Teaching Fellow — A. H. FINLEY.

REQUIRED COURSES

1. Lectures:

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(a) A series of 6 lecture-demonstrations on Growth and Development in the last term of Second year.

(b) A series of 24 lectures once weekly during the Third year designed to cover the various aspects of Diseases of Children; Nutrition, Hygiene, Infections and Communicable Diseases, Preventive Medicine, etc.

Staff

2. Diseases of the Newborn: Royal Victoria Montreal Maternity Hospital:

(a) A weekly clinic demonstration to groups of students of the Third year during their obstetrical quarter.

(b) A weekly lecture to groups of Fourth year students during their four weeks in Obstetrics.

(c) A bi-weekly demonstration in the nurseries to the group of Fourth year students in residence during their four weeks in Obstetrics.

3. Clinical Paediatrics:

(a) Groups during the final year spend eight weeks entirely at the Montreal Children's Hospital as clinical clerks taking part in bedside clinical conferences and, under supervision, caring for patients in the outpatient department.

(b) Normal growth and development, the care and feeding of the normal infant, immunization procedures, and preventive paediatrics are taught at the Child Health Clinic in the Montreal Children's Hospital.

Staff

(c) A series of demonstrations to groups of students on the common infectious diseases is given at the Alexandra Hospital as part of the instruction of the final year.

Staff

INSTITUTE OF PARASITOLOGY

Professor — T. W. M. CAMERON (Director).

Associate Professors - K. G. DAVEY, C. E. TANNER.

Assistant Professors — R. P. Harpur, E. Meerovitch, B. J. Myers, G. A. Schad, G. A. Webster.

REQUIRED COURSES

SECOND YEAR

The animal parasites of man (protozoa, helminths and arthropods) are considered as an integral part of the Second year course in Medical Microbiology. Exotic parasites are discussed briefly.

ELECTIVE COURSES

The Institute not only provides facilities for advanced research work at the Institute of Parasitology, but offers didactic courses in general and comparative parasitology and courses leading to the degrees of M.Sc., and Ph.D. (See Announcement of the Faculty of Graduate Studies and Research.)

DEPARTMENT OF PATHOLOGY

Strathcona Professor — G. C. McMillan (Chairman).

Associate Professors — W. H. Mathews, W. J. Pirozynski, F. W. Wiglesworth.

Assistant Professors — D. S. Kahn, G. Mathieson, H. Sheldon, W. M. Thurlbeck, B. I. Weigensberg.

Lecturers - S. Moore, G. Rona, Paula H. Schopflocher, M. A. Simon. Demonstrators — J. S. FAWCETT, J. E. FISHER, ILONA KERNER, J. P. A. LATOUR, D. R. MURPHY, M. M. SILVER, J. R. STUART.

REQUIRED UNDERGRADUATE COURSES

Course in General Pathology (First year):

100. Illustrated lectures during the Spring term totalling 36 hours.

Professor McMillan and Staff

101. Practical laboratory classes during the Spring term totalling 72 hours. Professor Pirozynski and Demonstrators

2. Course in Special Pathology (Second year):

200. Illustrated lectures throughout the Second year totalling 72 hours.

Professor McMillan and Staff

201. Practical laboratory classes throughout the Second year totalling 72 hours.

202. Group demonstrations throughout the Second year totalling 72 hours.

Course in Applied Pathology (Third and Fourth years):

300. Clinico-pathological Conferences alternate weeks throughout the Third Professor McMillan and Staff year totalling 54 hours.

400. Instruction in the performance of autopsies with demonstration of autopsy findings during the Fourth year.

Pathological Institute

Montreal General Hospital

Montreal Children's Hospital

Professor Pirozynski Professor Mathews Professor Wiglesworth

GRADUATE COURSES

See Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF PHARMACOLOGY

Professor — K. I. MELVILLE (Chairman).

Associate Professor — B. G. BENFEY.

Assistant Professors — N. R. EADE, B. A. KOVACS, D. R. VARMA.

Lecturers — L. E. Francis, G. E. Joron, E. M. Kovacs, H. E. Shister.

The object of the course in Pharmacology is to elucidate, as far as knowledge permits, the action of drugs, and thereby lay a sound foundation for drug therapy.

1A. Pharmacology Lectures. The action of drugs, considered on information from experimental methods and clinical observation. Chemistry and metabolism (absorption, distribution and fate) of drugs studied are emphasized regarding underlying mechanism of action and therapeutic usage. Principles of action of various classes of drugs are covered so that the student may follow development of the subject intelligently.

Two lectures a week during the Autumn and Winter terms. Second year.

1B. Pharmacology Laboratory, Demonstrations and Conferences:

DEMONSTRATIONS: In conjunction with laboratory work, demonstrations illustrating special aspects of the lectures are given during the year, either (a) in Departmental laboratories (replacing usual laboratory work) or (b) in conjunction with the Department of Medicine (Therapeutics) in the Teaching Hospitals, which will present clinical cases illustrating practical applications of drug usage.

Conferences: During the year four conferences of 45 minutes each and limited to six students, will be arranged. These conferences will replace the regular laboratory periods at the times specified.

2. Toxicology Lectures. A course of ten lectures devoted to the problems of acute poisoning (occurrence, symptoms, modifying factors, diagnosis and treatment), is given during the third term of the Second year.

Dr. G. E. Joron

ELECTIVES

Suitably prepared students may undertake special research or training projects under the direction of a staff member at any time, by application to the Chairman of the Department.

Advanced courses leading to the degrees of M.Sc. or Ph.D. will be arranged to suit individual cases. See Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF PHYSIOLOGY

Joseph Morley Drake Professor — F. C. MACINTOSH (Chairman).

Professor — B. D. BURNS.

Associate Professors — G. MELVILL JONES, KATHLEEN G. TERROUX.

Assistant Professors — R. I. Birks, J. Q. Bliss, Simon Dworkin, Bernice Grafstein, E. J. Reininger, Paul Sekelj.

Lecturers - R. P. GANNON, J. P. GIRVIN, K. MARTIN, J. W. TRANK, G. K. WOOD.

REQUIRED COURSES

FIRST YEAR

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Biochemistry—Physiology 1.

Monday to Friday, at 9 a.m.

Biochemistry—Physiology 1D.

Demonstrations and tutorials: one hour a week.

Biochemistry—Physiology 1L.

Laboratory: six hours a week.

This is an integrated course of lectures, tutorials, demonstrations and laboratory work, given by the two departments.

Introduction to Medicine.

One hour a week, from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are conducted in turn by the Departments of Anatomy, Biochemistry, and Physiology.

SECOND YEAR

2. Anatomy and Physiology of the Central Nervous System.

Two hours lectures, two hours laboratory, and one hour demonstration a week, during the second term.

This is one course, given by the Departments of Anatomy, Neurology and Neurosurgery, and Physiology.

ELECTIVE COURSES

1E. Selected Topics in Physiology. These are discussed from the point of view of current research in the Department.

2 hours a week.

3E. Research in Biochemistry and Physiology. A limited number of students may take Biochemistry or Physiology as an elective subject in their Third year. These students will be given the opportunity of participating in departmental research projects.

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OTHER COURSES

For other undergraduate courses in Faculty of Arts and Science, see Announcement of that Faculty.

For graduate courses, see Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF PSYCHIATRY

Professors — D. Ewen Cameron (Chairman), R. A. Cleghorn, A. E. Moll, E. D. Wittkower.

Associate Professors — T. E. Dancey, N. B. Epstein, V. A. Kral, H. E. Lehmann, A. W. MacLeod, R. B. Malmo, H. B. M. Murphy, Murray Saffran, T. L. Sourkes, Taylor Statten.

Assistant Professors — J. Aufreiter, M. Birmingham, C. Bos, H. Caplan, B. M. Cormier, J. F. Davis, H. B. Durost, Peter G. Edgell, Bernard Grad, Lloyd G. Hisey, R. C. A. Hunter, Henry Kravitz, A. Mann, M. S. Rabinovitch, C. A. Roberts, M. Straker.

Lecturers — F. G. Aufreiter, F. Azima, S. Barza, J. Beaubien, Charles H. Cahn, S. Z. Dudek, Brian R. Hunt, W. G. Krauser, Eva P. Lester, Douglas C. Levin, Leonard Levy, Z. J. Lipowski, F. W. Lundell, J. Mackay, Leo Mergler, J. Naiman, Dimitrije Pivnicki, G. J. Sarwerfoner, A. E. Schwartzman, C. H. Skitch, C. C. Smith, L. Solyom, W. J. Stauble, G. C. Taylor, S. Wilner.

Sessional Lecturers - M. PRADOS, B. SILVERMAN.

Demonstrators — M. Amadeo, Helga Ast, H. A. Azim, Thomas A. Ban, Cyril Cahill, Cemil Cezayirli, June Cumberland, Roger Louis Deverteuil, W. D. Engels, K. H. Ferguson, K. R. Ferguson, Harry Fyfe, Kemal Goknar, Harry Grauer, N. N. Greenberg, G. Hanrahan, Eddie Kingstone, F. Kristof, J. L. Lapointe, A. Lepage, Edward Levinson, Eva Libman, J. G. Lohrenz, A. S. MacPherson, A. F. Mezaros, H. F. Muller, G. C. Patton, P. D. L. Roper, Axel Russell, Jadwiga Sangowicz, R. M. Smith, B. Wainrib, Hector Warnes, W. W. Watters, G. Weiss, J. S. Werry.

REQUIRED UNDERGRADUATE COURSES

FIRST YEAR

Growth, Development and Human Relationships: A total of 16 hours, the first two being introductory lectures in psychobiology. The remaining hours of the course will include technique of child examination, diagnosis of child psychiatric states, child psychiatric problems as seen in various treatment facilities, including paediatrics outpatient clinic.

Professors Cameron, Statten, Ross (Paediatrics) and Staffs

SECOND YEAR

Two courses of lectures: (a) 12 1-hour lectures on psychopathology; (b) 12 2-hour sessions on psychiatric case studies, with case presentation.

Professors Roberts, Lehmann and Staff

THIRD YEAR

Six weeks block teaching to acquaint students with the examination of patients

and understanding of some of the major factors involved in abnormal behaviour. Diagnostic procedures, psychotherapeutic and physical methods of treatment, will be among the aspects covered. Students will be provided with tutors on a group basis and will also have more specialized training in the areas of child psychiatry, community psychiatry and mental disorders.

Professors Cameron, Moll, Dancey, Roberts, Statten, Silverman and Staffs

FOURTH YEAR

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The teaching in this year will be largely focused on clerkship. Students will attend tutorials, ward rounds, seminars, conferences, etc., at the Allan Memorial Institute, Montreal General Hospital and Queen Mary Veterans' Hospital.

Professors Cameron, Moll, Dancey and Staffs

GRADUATE COURSES

DIPLOMA IN PSYCHIATRY (Dip. Psychiat.)

Minimum prerequisites for entry to the Diploma Course in Psychiatry are a degree from an approved Medical College or School and one year's rotating interneship in an approved hospital.

Applications for admission should be addressed to the Chairman, Department of Psychiatry, McGill University.

The course is of four years' duration. Credit, not amounting to more than two years, may be given for study completed at other centres prior to enrolment at McGill University. In all instances, to qualify for the Diploma, the student must spend at least two years of graduate study in the Department of Psychiatry of McGill University.

The Diploma Course is organized to provide a comprehensive training for those (a) preparing themselves for a career in the field of general psychiatry, and (b) who wish to proceed to specialized preparation for such fields as child psychiatry, community psychiatry, university teaching and research, or general hospital psychiatry with special emphasis upon psychosomatic work.

The first two years are devoted to establishing a fundamental knowledge of clinical conditions and of general therapeutic procedures. Special emphasis is laid upon psychopathology, psychodynamics and psychotherapy, and upon gaining experience in the full range of diagnostic and therapeutic procedures now in common use in psychiatry.

The last two years of the course provide considerable choice in courses and in training locations to meet the needs of those who wish special advanced experience in psychosomatic work, child psychiatry, general psychotherapy, research and other of the special areas referred to above.

Increasing emphasis is now being placed upon the desirability of spending a year in research work. This year may be spent either in the laboratories of the Allan Memorial Institute in the research divisions, as a member of a field group, or on one of the clinical investigative teams at work in the various clinical teaching hospitals of McGill University.

Theoretic instruction and practical experience are closely and continuously integrated, and the student is expected not only to participate in, but, also, in the more advanced years, to learn to use the major teaching procedures: small group discussions, seminars, didactic lectures, case conferences, journal clubs, recorded interviews, as well as the one-way screen, movies and television.

Extensive use is made of the tutorial method of teaching, particularly in connection with psychotherapy. In each of the four years students are assigned to a tutor who is a member of the attending staff.

In addition to the training areas within the Department of Psychiatry, postgraduate students who have completed not less than two years' training may be assigned to the research teams and groups established in connection with the other clinical centres, where they work under the direction of a senior member of the research staff. Moreover, arrangements are possible with other departments within the University for periods of special study: for instance, with the Montreal Neurological Institute for special instruction and experience in neurology, or with the University Clinic of the Department of Internal Medicine for special advanced work in the psychosomatic field. At least six months' work in a mental hospital will be required.

Students are expected to have sufficient knowledge of English to participate adequately in seminar instruction and to benefit from their clinical experience.

Before receiving the Diploma the candidate must pass an examination during

the Second year and again at the end of the Fourth year.

Further information may be obtained by writing the Chairman, Department of Psychiatry, McGill University.

COURSES FOR THE DEGREE OF MASTER IN SCIENCE IN PSYCHIATRY

See Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF RADIOLOGY

Professor — CARLETON B. PEIRCE (Chairman).

Associate Professors — J. J. L. BOUCHARD, D. L. MCRAE, D. J. SIENIEWICZ.

Assistant Professors — E. F. CRUTCHLOW, J. S. DUNBAR, R. G. FRASER.

Assistant Professor of Physics — L. G. Stephens-Newsham.

Lecturers — H. Blondal, N. M. Brown, F. A. Grainger, B. B. Hale, M. N. Lougheed, D. W. MacEwan.

Demonstrators — D. Berger, B. St. J. Brown, J. J. Hazel, J. A. Liver, F. R. MacDonald, F. McConnell, G. B. Skinner.

Demonstrators (Physics) — R. A. BEIQUE, H. H. ZWICK.

UNDERGRADUATE COURSES

FIRST YEAR

Normal Roentgen Anatomy with special attention to functional changes in the skeletal and the several visceral systems.

In co-operation with the Department of Anatomy Professor Peirce and Staff St

SECOND YEAR

Introduction to Radiology including the basic principles and application of radiation physics, radiation biology and physiology in diagnosis and therapy by means of ionizing radiations.

Professor McRae

THIRD YEAR

(a) Clinical Radiology—a systematic exploration of radiologic evidence of disease and the therapeutic applications of ionizing radiations; weekly conferences while the students are attending Internal Medicine and Surgery in the teaching hospitals.

Professors Peirce, Bouchard, Sieniewicz, Fraser and Staff

(b) Elective: A tutorial period, with opportunity for the student to explore the radiological features of some special disease, entity or syndrome in one of the teaching hospitals.

Professors Peirce, Sieniewicz and Staff

O died summer 1963

FOURTH YEAR

Clinical Radiology continued in the programme initiated in the Third year while attending Internal Medicine and Surgery with the addition of paediatric disease.

Professors Peirce, Bouchard, Sieniewicz and Dunbar and Staff

GRADUATE COURSES

(a) DIPLOMA IN RADIOLOGY (Dip. Radiol.)

Minimum prerequisites: Degree from an approved Medical Faculty, College or School; one year of general rotating interneship; appointment on the Resident Staff in Radiology of one of the teaching hospitals for this Faculty.

Required Studies: Four years of postgraduate study in Diagnostic and/or Therapeutic Radiology including Radiation Physics, Radiobiology and Pathology

in the University and its teaching hospitals.

Advanced credit may be allowed by the Departmental Committee for graduate study in Radiology and/or cognate fields (Internal Medicine, Clinical Surgery or the basic Sciences) in approved institutions or teaching hospitals elsewhere, but not in excess of two of the required four years. Studies pursued in the basic sciences should be of a quality acceptable in partial fulfilment of the requirements for the degree of Master of Science.

In addition to a thorough grounding in general medical radiology, in so far as practicable arrangements may be made for the candidate to pursue studies in the special fields pertinent to his chosen division, such as the diagnostic radiologic interest in neurologic and paediatric diseases or the diagnostic and therapeutic interests of nuclear medicine in the Therapeutic division.

Preparation of a scientific paper, under supervision of his tutor or as co-author, will be expected of each candidate.

Both written and oral final examinations are required.

The didactic programme of the Diploma Course and the associated clinical studies are fully accepted à propos the specialist certification by the several qualify-

Further information may be obtained from the Chairman, Department of Radiology, McGill University.

(b) MASTER OF SCIENCE (M.Sc.)

For information relative to the Master of Science degree, see Announcement of the Faculty of Graduate Studies and Research or enquire of the Chairman of the Department.

DEPARTMENT OF SURGERY

Cham. Och 63 Professors - L. D. MacLean (Acting Chairman), D. R. MURPHY, H. R. ROBERTSON, D. R. WEBSTER (Experimental Surgery).

Associate Professors — H. A. BAXTER, S. G. BAXTER, J. W. GERRIE, F. N. GURD J. C. Luke, S. J. Martin, J. R. McCorriston, H. S. Morton, H. F. Moseley, A. M. Vineberg, F. M. Woolhouse.

Assistant Professors — W. M. COUPER, G. A. HOLLAND, H. F. OWEN, J. D. PALMER, S. C. SKORYNA (Experimental Surgery).

Lecturers — A. R. Bazin, H. E. Beardmore, J. C. Dickison, A. R. C. Dobell, J. A. DRUMMOND, M. A. ENTIN, R. L. ESTRADA, I. W. D. HENDERSON, J. F. HOPKIRK; A. F. JONES, G. M. KARN, R. N. LAWSON, R. C. LONG, D. D. MUNRO, D. W. RUDDICK, H. J. SCOTT, I. SHRAGOVITCH, E. J. TABAH, A. G. THOMPSON.

Demonstrators — N. J. Belliveau, J. R. Gutelius, L. G. Hampson, F. G. Inglis, G. W. Lehman, D. T. Lin, J. R. Moore, W. L. Ogilvy, H. B. Williams, E. W. Workman.

ORTHOPAEDIC SURGERY

Associate Professors — J. G. PETRIE, J. G. SHANNON.

Assistant Professors — J. A. L. WALKER, J. M. McIntyre.

Lecturers — A. A. Butler, E. C. Percy, J. L. Shugar, R. G. Townsend, C. L. Wilson.

Demonstrators — I. S. BITENC, H. F. FARFAN, F. A. H. GREENWOOD, W. E. WILSON.

UROLOGY

Associate Professors — K. G. MacKinnon, R. G. Reid.

Assistant Professors — S. A. MACDONALD, J. T. MACLEAN.

Lecturer — C. A. MOORE.

Demonstrators — I. J. de Domenico, N. Halpern, W. F. Lingard, T. Nearing, J. A. Oliver, J. Susset.

REQUIRED UNDERGRADUATE COURSES

SECOND YEAR

Surgical teaching begins in the Spring term (12 weeks) of the Second year. In this year special attention is directed to the instruction and training of the student in proper methods of physical examination from the surgical point of view.

- 2A. A Course of Lectures (12) is given covering the basic principles of Surgery.
- 2B. Group Classes in the wards of the Montreal General and Royal Victoria and Queen Mary Veterans' Hospitals. At these, small groups of students are instructed in methods of examination as applied to surgery and its allied specialties.

THIRD YEAR

The student comes into a more intimate contact with the patients, and in the surgical term of eight weeks is assigned cases, writes case reports, acts as dresser, and assists at operations. His clinical work is confined to one hospital — either the Montreal General Hospital or the Royal Victoria Hospital.

- 3A. Discussions concerning material covered in an assigned reading course will be held in the Montreal General and the Royal Victoria Hospitals one day each week.
- 3B. Group Ward Classes in the Montreal General and the Royal Victoria Hospitals, five times a week during the term.
- 3C. Case Reporting. Patients are allotted to students who act as reporters, dressers, and assistants at operations.

FOURTH YEAR

In the Final year the student spends eight weeks attached to the surgical service of a hospital. During four of these weeks the student is required to live in the hospital.

SURGICAL DISEASES OF CHILDREN

Some instruction in the surgical diseases of children is given during the trimester in which the students are assigned to paediatrics at the Montreal Children's Hospital as follows:

4A. Group Ward Classes three times a week throughout the trimester.

In their Final year students attend either the Shriners Hospital or the Montreal Children's Hospital for further instruction in paediatric surgery.

ORTHOPAEDIC SURGERY

Some lectures covering the basic principles of orthopaedic surgery are given in the Second year and members of the Orthopaedic Staffs of the Montreal General Hospital and Royal Victoria Hospital participate in the Second and Third year bedside clinics.

In the Final year seminars are conducted by members of the Orthopaedic Staff.

UROLOGY

In the Final year students are assigned to the Urological Services of the Montreal General Hospital and Royal Victoria Hospital for one week and, in addition to this, ward classes are held three times a week in each hospital.

GRADUATE COURSES

DIPLOMA IN UROLOGY (Dip. Urol.)

Minimum prerequisites for entry to the Diploma Course in Urology are a degree from an approved Medical College or School, one year's rotating interneship in an approved hospital, and two years of training in general surgery or divided between general surgery and pathology or some other basic science.

Applications for admission should be addressed to the Chairman, Department of Surgery, McGill University.

The course is of three years' duration. The three years are spent as a member of the resident staff in the Department of Urology of the McGill University Teaching Hospitals. Throughout the three-year period, during the academic sessions, lectures or seminars are held one night each week. Through the co-operation of the Department of Medicine each candidate spends four months in the Renal Laboratory.

No examination is held. The Diploma is recommended on the satisfactory completion of the three year training programme.

For other graduate courses in Surgery, see Announcement of the Faculty of Graduate Studies and Research.

BUILDINGS

THE MEDICAL BUILDING

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This building contains the Offices of Administration, the Medical Library, the Department of Anatomy, and the Department of Investigative Medicine. The Faculty of Dentistry is also in this Building.

THE BIOLOGICAL BUILDING

Completed in 1922, this building was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. It houses laboratories devoted to Botany, Zoology, Genetics, Biochemistry, Physiology, and Pharmacology.

Each of these departments is provided with laboratories and units for undergraduate teaching and graduate research.

THE PATHOLOGICAL INSTITUTE

This building was opened for use in October, 1924. It is situated on the northeast corner of University Street and Pine Avenue adjacent to the Medical Building, the Montreal Neurological Institute and the Royal Victoria Hospital. It accommodates the Departments of Bacteriology and Pathology and contains a pathological Museum and two departmental Libraries. There are extensive facilities for undergraduate teaching, postgraduate training and research, and for pathological, anatomical and microbiological diagnosis.

THE MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. The construction of the McConnell Wing, opened in 1953, approximately doubled both the clinical and laboratory space. Unsurpassed in its equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neurosurgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine. In addition to wards, operating rooms, and laboratories for treatment and study of diseases of the nervous system, the building provides facilities for graduate study and research in the related fields of basic science.

THE ALLAN MEMORIAL INSTITUTE

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building was reconstructed to permit of the establishment of a fifty-bed unit, together with extensive research laboratories, and was officially opened July 12, 1944.

In 1946 the first day hospital in the world was opened at the Institute and in

1953 a fifty-bed wing was added.

In 1963 a research and training building was added by McGill University. Both undergraduate and postgraduate teaching are carried on at the Institute.

THE DONNER BUILDING

The Donner Building for Medical Research, adjacent to the Medical Building, was completed in September 1948. Its erection was made possible through the generosity of William H. Donner of Philadelphia, the late founder of the International Cancer Research Foundation, who provided the funds necessary for the construction of a building entirely devoted to medical research.

This building houses the Maxwell Lauterman Laboratories for Experimental

Surgery and laboratories for Dentistry and Experimental Psychology.

HOSPITALS

Few medical schools on this continent offer better facilities than those enjoyed by the students of McGill University. Ideal academic and topographical conditions exist for the teaching of scientific and practical medicine.

The Medical Faculty is on the University Campus, and is thus in juxtaposition to the scientific laboratories of the University and to the largest teaching hospital in the city. Co-operation with the scientific and cultural departments of the University, as well as with clinical facilities, is thereby made easy.

The following hospitals and institutions are at the disposal of the teaching staff and students for clinical and pathological study:

Royal Victoria Hospital Montreal General Hospital Montreal Children's Hospital Queen Mary Veterans' Hospital Alexandra Hospital for Infectious Diseases Verdun Protestant Hospital Royal Edward Laurentian Hospital Royal Victoria Montreal Maternity Hospital

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical Faculty. These affiliated hospitals contain over 6,000 beds.

The Royal Victoria Hospital, in juxtaposition to the University buildings, comprises the following units under one administration:

1. The Main Building;

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- 2. The New Medical Wing;
- 3. The New Surgical Wing;
- 4. The Ross Memorial Pavilion for private patients;
- 5. The Women's Pavilion Royal Victoria-Montreal Maternity;
- 6. The Allan Memorial Institute.

The total bed complement is 1,018, with 115 bassinets. Admissions total over 23,000 and confinements are in excess of 3,800 a year. There are more than 100,000 visits annually to the Outpatient Department. The University Clinic was established in 1924 and has facilities for both clinical laboratory work and research.

Post-mortems total 60 per cent of the deaths.

The number of resident physicians is 162.

The Royal Victoria-Montreal Maternity Pavilion, with 197 beds for obstetrical and gynaecological cases. In this institution there are 117 teaching beds and an organized outpatient service which is of the greatest benefit to the undergraduate student. In a typical year, the obstetrical service cares for over 3,800 confinements in the Hospital. In the gynaecological section, over 2,800 cases are admitted during the year.

There are 22 resident physicians.

The Montreal General Hospital has a bed complement of 750 for the treatment of acute diseases. In a typical year, there are approximately 18,000 admissions and 150,000 consultations in the Outpatient Department. The resident and interne staff numbers 130.

The "Montreal General" was founded in 1821; two smaller buildings downtown had preceded it in 1816 and 1819. In age, therefore, it is not the oldest hospital in Canada, but its record in clinical teaching is one of the longest on the North American continent.

From the time the Hospital was opened, its staff began to arrange for students and, in 1823, they opened the first Medical School in Canada, the Montreal Medical Institution, with 25 students. Teaching was carried on partly at the Hospital. It was this School which agreed to form the Medical Faculty of McGill University in 1829; the beginning of a long and intimate association between the Hospital and the University.

The present buildings on Cedar Avenue were occupied in 1955.

The Montreal Children's Hospital has 362 beds (65% public beds), and, in a typical year, admits 12,000 patients. The attendance at its outdoor department totals over 100,000 clinic visits. This hospital admits all classes of cases of disease in children except pulmonary tuberculosis and the communicable diseases, and enables students to get a broad concept of paediatrics.

There are 175 autopsies in a typical year, representing 85% of all deaths.

The number of resident physicians is 100.

Queen Mary Veterans' Hospital has 700 active treatment beds and 1,200 beds at Ste. Anne's Hospital, Ste. Anne de Bellevue for rehabilitation, geriatrics and

psychiatry.

The hospital was taken over by the Department of Veterans Affairs in August 1946, with affiliations of consulting, attending and resident staff which were set up in collaboration with the Medical Schools of McGill University and l'Université de Montréal.

Admissions are over 7,500 a year and include not only veterans, but serving members of National Defence, Merchant Navy, Immigration, R.C.M.P., personnel returning from the Tropics, and, groups from other Government Departments.

The outpatient attendance is approximately 100,000 annually and the post-

mortem rate is about 85%.

Active treatment and research are maintained in all the usual fields and, in addition there are special departments: Paraplegics, Plastic Reconstruction and Prosthetics (construction, alterations and fitting of artificial limbs).

The resident physician appointments number 74 and 6 of these rotate through Ste. Anne's Hospital.

All specialties, except Obstetrics and Paediatrics, are covered.

The Alexandra Hospital for Infectious Diseases, opened in 1906, with modern wards, cubicles and equipment is regularly attended by students who receive demonstrations on the essential features of all the common acute infectious diseases and tuberculosis.

There are three wards for the treatment of tuberculosis in children and tuberculous meningitis in adults and children. There are 150 beds (including 50 for tuberculosis) and the average yearly admissions range between 800 and 1,000.

There is a resident senior physician and two junior rotating physicians.

The Verdun Protestant Hospital was opened in 1890. It is a psychiatric hospital for the treatment of emotional and mental diseases and with its 1,625 beds serves mainly the English speaking communities of the Province of Quebec. It is directed by a private Board of Governors, but admits non-paying patients on the basis of a contract with the Provincial Government. There are approximately 1,500 admissions per year, and in the after care clinic also about 1,500 patients are seen during the year. The medical staff consists of 17 psychiatrists and 18 psychiatric residents who are registered with the McGill Diploma Course in postgraduate psychiatry; some 20 consultants in the various medical specialties also visit the hospital regularly. All Third year undergraduate medical students of McGill University spend three weeks on the wards of the hospital as part of their psychiatric teaching. The hospital provides clinical instruction and training of nurses, nursing assistants, occupational therapists, psychologists, social workers, and other professional personnel. An active research programme is carried on in the basic and clinical aspects of human behaviour.

The Royal Edward Laurentian Hospital has as its objectives the study, prevention and treatment of tuberculosis and diseases of the chest. It consists of two Divisions—one located in Montreal a few blocks from the University and the other in Ste. Agathe des Monts.

The Montreal Division comprises the following:

An outpatient department which includes:
An antituberculosis dispensary and
A chest clinic

A hospital which consists of:

A pulmonary tuberculosis unit, for emergency and surgical cases (27 beds) and A chest disease unit (100 beds) This Division's facilities include air conditioned operating and recovery rooms, a respiratory physiology laboratory, a large bacteriology laboratory, several individual laboratories for research workers, and an autopsy room.

The resident staff consists of:

1 resident surgeon

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1 assistant resident surgeon

1 resident physician

6 assistant resident physicians

The Laurentian Division comprises a 144-bed sanatorium.

The resident staff consists of:

1 resident physician

1 assistant resident physician

THE MEDICAL LIBRARY

Honorary Librarian — LLOYD G. STEVENSON

Medical Librarian — —

The Library, now of nearly 90,000 bound volumes, originally occupied the central front section of the medical building but has expanded its stack area to the north side on the two lower floors.

The Reading Room is on the fourth floor of the building with a small periodical room adjacent. The third floor contains the stacks for bound journals and has three study rooms for use of members of the teaching staff. The second floor is devoted to administration and technical operations.

The chief value of the Library is in its periodical collection. About 2,000 journals are received currently in almost all languages. The book collection is especially noteworthy in the ophthalmological section due in large measure to many gifts from the late Dr. Casey A. Wood.

The Library is for members of the teaching staff and students of the Faculty and of the whole University, and for research workers and doctors in the city. An extensive interlibrary loan service throughout the country is maintained.

The Library is open during the academic session from Monday to Friday, 9 a.m. to 10 p.m. September to March; 9 a.m. to 11 p.m. April to mid-June; Saturday 9 a.m. to 5 p.m. After June 15 the hours are 9 a.m. to 5 p.m. Monday to Friday, closed Saturday.

There are also small libraries and collections of books and journals located in several Departments of the Faculty.

THE OSLER LIBRARY

This special library of the history of medicine and science, collected by Sir William Osler with a view to its educational value, was bequeathed by him to his Alma Mater. The Osler Library, which comprises nearly 12,500 volumes, occupies a large room, beautifully equipped, on the fourth floor, convenient to the Medical Library. The collection is rich in early editions of the older literature, as well as in modern historical works, and its importance and usefulness are much enhanced by the donor's annotated catalogue. Planned and prepared by Osler along very unusual lines, the catalogue was completed, indexed, and printed after his death (Bibliotheca Osleriana, Clarendon Press, Oxford, 1929, xxxvi, 785 pp.).

The books are classified in eight sections, of which the first, the "Bibliotheca Prima," presents a bibliographical outline of the evolution of science (including medicine), and was planned to contain the essential literature arranged chronologically under the names of the greatest contributors to the advancement of knowledge. Another feature of the Library is its Incunabula, a valuable collection of 150 books printed in the fifteenth century. Recently the Wellcome Trust has given generous

annual grants for the purchase of expensive books to fill gaps in the Osler collection.

The Osler Library is open daily, except Sunday, for the use of undergraduates and all who are interested. The Librarian will be glad to give advice or informal instruction to students. Accommodation is provided for readers. The books belonging to the original collection may not be borrowed or removed from the Library, but this restriction does not apply to the current works on the history and biography of medicine and science which are constantly being added.

MEDICAL SOCIETIES

McGILL MEDICAL UNDERGRADUATE SOCIETY

The Society is composed of the registered students of the faculty. Its purpose is:

(1) To transact all matters of business connected with the undergraduate body;

(2) To stimulate interest along medical lines;

(3) To assist students to express themselves in public with facility;

(4) To provide an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.

(5) To organize, during the course of the school year certain outside activities such as the annual Medical Banquet and Ball.

Monthly meetings are held at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter, and three Councillors (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

The society also maintains the Students' Reading Room. English and American journals, as well as the leading daily newspapers are kept on file.

ALPHA OMEGA ALPHA HONOUR MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate, and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the Third and Fourth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

OSLER SOCIETY

The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes men from each class in the faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.

Faculty of Medicine

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McGill University FACULTY OF MEDICINE

ADMINISTRATIVE OFFICERS

F.R.C.S.(C), F.A.C.S.	Principal and Vice-Chancellor
H. NOEL FIELDHOUSE, M.A., F.R.S.C., 1	F.I.A.L. Vice-Principal (Academic)
EDWARD H. BENSLEY, M.B.E., B.A.,	M.D., F.R.C.P.(C), F.C.I.C., F.A.C.P. Associate Dean of the Faculty
S. M. BANFILL, M.B.E., B.A., M.D., C.M.	A. Assistant Dean (Admissions)
G. E. JORON, B.A., M.D., C.M., F.A.C.P.	Assistant Dean (Professional Relations)
JOHN G. HAMPSON, B.Com., C.A.	Executive Secretary of the Faculty
G. A. GRIMSON, B.Com.	Comptroller

COLIN M. McDOUGALL, D.S.O., B.A. Registrar

J. H. HOLTON, B.Com.

Secretary of the Board of Governors

Special Announcements are available for the School of Physical and Occupational Therapy, and the School for Graduate Nurses.

Details of Scholarships, Bursaries, Prizes, Medals, and Loan Funds are given in the Scholarship Announcement, which may be obtained from the Registrar's Office.

FACULTY OF MEDICINE

The one hundred and thirty-second session of the Faculty will open on September 9, 1964 for students of all years.

Students may enter the Faculty of Medicine in one of two ways. A limited number will be admitted from high school to the Double Course in Science and Medicine. Most will be admitted from college to the four-year medical course.

A. DOUBLE COURSE IN SCIENCE AND MEDICINE

REQUIREMENTS FOR ENTRANCE

Students of high calibre and first-rate academic attainment will be admitted to the First year of this programme after successfully completing Junior Matriculation. They will be enrolled directly in the Faculty of Medicine and at the same time in the Faculty of Arts and Science. In exceptional circumstances students will be admitted to the Second year of the seven-year course when they have obtained high standing in Senior Matriculation. A joint committee of the two Faculties concerned will select the successful candidates.

DESCRIPTION OF COURSE

Duration: Seven years from Junior Matriculation, six years from Senior Matriculation.

Degrees: B.Sc. (after 5 years), M.D., C.M. (after 7 years).

First year: Chemistry, Physics, Mathematics, Biology and two electives.

Second year: Organic Chemistry and five electives.

Third year: Anatomy (not including Head and Neck) and three electives.

Fourth year: First year Medicine (omitting Anatomy) and two electives.

Fifth, Sixth and Seventh years: Last three years of standard medical curriculum. One course in English, not necessarily a First year course, will be required at

some time during the first four years.

Elective courses must be selected so as to meet the requirements for the degree of B.Sc.

APPLICATION FOR ADMISSION

Application should be made by March 1, 1965 to the Director of Admissions of McGill University, Montreal 2, Canada. Application forms may be obtained from the Registrar's Office or the Admissions Office.

B. FOUR-YEAR COURSE IN MEDICINE

REQUIREMENTS FOR ENTRANCE

 (a) Total Academic Credits: The minimum requirement for admission to the medical course is the satisfactory completion of three full years of study in a recognized college or Faculty of Arts and Science in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. Preference is given to those who have completed the work leading to a B.A. or B.Sc. degree. (b) Scientific Requirements: In the scientific branches, certain subjects are specifically required:

Chemistry, two full courses, including General Chemistry and Organic Chemistry, with laboratory work.

Physics, one year with laboratory work.

Biology, or Zoology, one year with laboratory work. (Of this, a half year must consist of Zoology.)

(c) Cultural Requirements: These must be selected in such a way as to be in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. These would commonly include credits in English Literature and Composition and in Mathematics. It is advisable for each applicant to present evidence of such preparation.

(d) All candidates for admission to the Medical Faculty are required to take the Medical College Admission Test conducted by the Psychological Corporation (304 East 45th Street, New York 17, N.Y.) or furnish an explanation of why they are unable to do so. This test should be taken not later than the spring of the Third year of the college course.

2. In selecting courses, in addition to the specific requirements listed above, the intending medical student should plan his pre-medical course as a whole, and in accordance with a definite educational objective. Emphasis should be laid on the broad educational value and the intellectual training afforded, rather than on the factual content of such pre-medical curricula; the student is therefore advised to plan his course in such a way as to provide more than elementary training in some definite field of learning which appeals to him; this major field may be selected from the Natural or the Social Sciences or the Humanities. Certain subjects which though not essential have been found valuable in medical study, and which may be included as electives if the curriculum in the major field permits, are Psychology, Sociology, and Genetics.

In general, students are advised not to anticipate medical school courses in Physiology, Histology, Bacteriology, and Biochemistry at the expense of a fundamental training as outlined above.

On the other hand, for students who desire a preparation in excess of the minimum requirements, a considerable degree of specialization in the sciences, such as Honours graduation, or a Master's degree, in Physics, Chemistry, Biochemistry, Biology, Physiology, or Bacteriology, may prove to be desirable and advantageous.

The students' attention is called to the memorandum printed in the Announcement of the Faculty of Arts and Science, for the guidance of students who wish to enter Medicine.

Candidates for admission shall furnish evidence that they have satisfied the matriculation requirements of the Licensing Body in the region where they wish to practise. This provision applies to Canadian candidates only.

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A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official Statement of his preliminary education and of the medical course he has followed and the standing he has obtained. This should be accompanied by a calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

The equivalent courses of study in schools accepted by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the accepted school, but the

student may be required to pass such examinations, individual or comprehensive, as may be required by the Faculty.

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Assistant Dean (Admissions) of the Faculty or the Registrar's Office.

As the number of students in each class is limited, application should be made early and in any case not later than January 1. Each application must be accompanied by a non-returnable fee of \$5.00 in the form of a cheque or money order payable to McGill University.

A fee of \$50.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Assistant Dean (Admissions) when possible, is advisable.

REGISTRATION

Students in the Faculty of Medicine will register at the Registrar's Office in Dawson Hall on Friday, September 4 or Tuesday, September 8, 1964. Those who register late will be required to pay a late registration fee of \$5.00 if they register during the first week of the session and \$10.00 if they register during the second. The fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

FEES

The University reserves the right to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions described in the General Announcement.

UNIVERSITY FEES

1.	DOUBLE COURSE IN SCIENCE AND MEDICINE First and Second Years Third to Sixth Years	\$600.00
	Seventh Year	
2.	FOUR-YEAR COURSE IN MEDICINE First to Third Years Fourth Year	710.00
3.	REPEATING STUDENTS Students repeating a year pay full fees.	
4.	AD EUNDEM FEE Students entering any year above the First, pay a special ad eundem fee of	\$10.00

GENERAL REGULATIONS

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- Students entering the University for the first time are required to pay their fees either by mail or in person at the Accounting Office.
 - The first instalment is due within 10 days after registration, the second instalment before January 15, 1965.
 - A late payment fee of \$5.00 is charged for payment after the specified dates.
- 2. Students who have completed one or more years and intend to register in the succeeding year must pay one half of the total sessional fee by mail or in person to the Accounting Office before September 1, 1964, otherwise they will not be permitted to register. Instructions for paying fees in advance will be mailed to all upper year students, either with their Reports of Sessional Standing or a short time later. Students who have been notified by the University of the award of a scholarship, bursary or student loan, and who require this for payment of the first instalment of fees, must obtain from the Student Aid Officer, McGill University, a Permit to Delay Payment of Fees.
 - The second instalment is due January 15, 1965. A late payment fee of \$5.00 is charged for payment after the specified dates.
- Students registering late must pay their fees at the time of registration, failing
 which they become subject to the late payment fee and the provisions of the
 following paragraph:
 - As soon as possible after the prescribed dates for the payment of fees the Chief Accountant will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.
 - All fees are payable in Canadian Currency.
 - For further information and for a list of special fees see the General Announcement.

MICROSCOPES

Each student on beginning his studies is required to provide himself with a first-class microscope for laboratory and private study throughout his course. The Medical Faculty has examined a large number of student monocular microscopes of good quality and has selected a model which it feels best suited to student requirements.

This microscope can be purchased from the McGill Book Store at very substantial saving made possible by large scale ordering. It is recommended that students, regardless of their country of origin, avail themselves of this opportunity to purchase a first-class microscope at greatly reduced cost.

The University does not rent microscopes to medical students.

BOARD AND RESIDENCE

For details of board and residence and an estimate of expenses, see the General Announcement.

HEALTH SERVICE

For details of the Health Service and Medical Examinations see the Students' Information Pamphlet.

COURSES FOR THE DEGREE OF M.D., C.M.

The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including

(a) four years of medical study in the University leading to

the degree of M.D., C.M.; and

(b) one year of interneship in an approved hospital.

While the Faculty Administration exercises a general supervision of arrangements for interneships, the Faculty of Medicine assumes no responsibility to provide an interneship for any student.

A certificate that his medical education is completed and that he is eligible to sit for the examination of a licensing board shall not be issued to any graduate until the University is in possession of satisfactory evidence that he has completed the full requirements.

The sessions usually begin the first Wednesday after the first Monday in September (Labour Day). In the first three years, the session continues until the middle of June, but the final year is completed in time for the degree of M.D.,C.M. to be awarded at the regular University Convocation at the end of May.

The arrangement of the principal subjects of instruction is usually as follows:

FIRST SESSION

Anatomy (including Embryology), Histology, Physiology, Biochemistry, Child Development and Human Relations, Introduction to Medicine, General Pathology, History of Medicine.

SECOND SESSION

Central Nervous System (Anatomy, Neuroanatomy, Neurophysiology, Psychology), Medical Microbiology, Laboratory Diagnosis, Medicine, Surgery, Obstetrics, Health and Social Medicine, Pharmacology, Psychiatry, Special Pathology, Radiology, History of Medicine.

THIRD SESSION

Health and Social Medicine, Medicine, Surgery, Obstetrics and Gynaecology, Medical Jurisprudence, Neurology and Neurosurgery, Paediatrics, Psychiatry, Ophthalmology, Oto-laryngology, Radiology, Anaesthesia, Electives.

FOURTH SESSION

Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Paediatrics, Ophthalmology, Oto-laryngology, Radiology, Therapeutics.

EXAMINATIONS

The examinations taken within the Medical Faculty are divided into two groups, namely major examinations and minor examinations. Major examinations are the final examinations in Anatomy (Embryology), Histology, Physiology, Biochemistry, Pharmacology, Medical Microbiology, Special Pathology, Public Health and Preventive Medicine (Third year), Paediatrics, Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Central Nervous System.

The examinations in Medicine, Surgery, Obstetrics and Gynaecology, and Psychiatry at the conclusion of the Third Session are ranked as major examinations, even though they are not the final examinations in these subjects.

Minor examinations include the final examinations in General Pathology, Laboratory Diagnosis and examinations preliminary to the final major examinations. A student who fails in any major examination will be required, before he sits a supplemental examination, to present to the Dean's office from the senior professor of the Department concerned a certificate that the student has taken sufficient extra tuition as would indicate that he has reviewed the subject and is a suitable candidate for the supplemental examination.

There is a strict difference between the importance of a major and a minor examination. If a student fails in the supplemental of a major examination, there are definite restrictions as shown below, but if he fails in the supplemental of a minor examination he is permitted to carry conditions as shown below.

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A student is not allowed supplementals in three major examinations in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student is not allowed supplementals in two major and one minor examination in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

Unless the Promotion Committee finds special mitigating circumstances, a failure in the supplemental of a major examination will require the student to repeat the course (repeat the year), and no student may repeat such a course more than once. Any student who fails in the supplementals of two major examinations in any one year shall be required to retire without the privilege of further supplementals.

A student who fails in the supplementals of three or more minor examinations in any one session must repeat this session or may be asked to retire, as may be decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

A student who fails in the supplementals of not more than two minor examinations may proceed with other subjects in the following year, carrying such subjects as conditions, but may not sit any subsequent major examinations until the conditions have been removed, nor may he carry more than two conditions at one time.

All conditions must be removed by the end of the first term (November) in each session when additional supplemental examinations will be held. Failure in any of these will require the student to revert to the previous year and to repeat the courses of the Winter and Spring terms.

A student in the final year may take a supplemental examination in one subject only, but must present a certificate from the senior professor of the Department concerned that he has taken extra tuition in this subject in one of the teaching hospitals of the McGill Faculty of Medicine. If he should fail in this supplemental examination, he must repeat the year of study and pass all the major examinations at the completion of the session.

A student in the final year who fails in two subjects will not be permitted supplementals but must repeat the year or retire, as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student will not be allowed to repeat a year more than once nor may he repeat a subsequent year if such repetition has been due to failure in examinations, except on special recommendation of the Promotion Committee, acting upon the motion of the representatives on the committee of the Department concerned.

A student who has been permitted to repeat his year shall be required to make a C+grade, which for this purpose is considered to be 65%, or he will not be permitted to continue his course.

Examinations, tests, reviews, etc. will ordinarily be held during the session only at the end of the twelve week terms. It is understood that such examinations,

tests or reviews are conducted for the benefit of the student in order that he may have experience in the requirements of the sessional examinations, and further, that he and his teachers may know he is progressing in his studies. In the Fourth year final examinations will be held at the end of each rotation.

There shall be two Promotion Committees. The First Committee shall consist of representatives of the subjects of Anatomy, Biochemistry, Histology, Physiology, Pharmacology, Medical Microbiology and Pathology appointed by the Dean, and the Dean and the Secretary ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the First and Second years.

The Second Committee shall consist of representatives of the Departments of Health and Social Medicine, Medicine, Surgery, Obstetrics and Gynaecology, Paediatrics, and Psychiatry appointed by the Dean, and the Dean and the Secretary ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the Third and Fourth years.

All results of examinations will be given out by the Dean's office, after they have been passed upon by the Promotion Committee. It is an absolute rule that no examination results shall be communicated by any other channel.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent. There can be no appeal from this decision.

GRADING

At the conclusion of each course, students are graded in five groups as follows: $A = \text{Excellent} \qquad \qquad C = \text{Fair} \qquad \qquad E = \text{Failure}$

B = Good D = Doubtful

In reporting the grading, the names of those students who attain "A" standing are arranged in order of merit; in all other grades the arrangement is alphabetical.

By regulation of the Faculty of Medicine, a student is not permitted more than one "D" grade in the examinations of a single year. In the presence of other "D" or "E" grades all "D" grades are automatically converted into failures by the Promotion Committees.

The grade assigned to a student is based upon the results of the Final Examination, but the instructor also takes into account the record of the work done throughout the course.

out the course.

The quality of the English used by a candidate is taken into account in determining his standing in all examinations.

REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

- 1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.
- 2. He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than nine months each in this University or in some other university, college or school of Medicine, approved by this University.
- 3. No one is permitted to become a candidate for the degree who has not attended at least two full sessions at this University.
- 4. Every candidate for the degree must have passed all the required examinations in the subjects comprising the Medical course.
- 5. He must have attended the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one

hundred beds) approved by this University and the practice of the Montreal Children's Hospital; and must have acted as clinical clerk in Medicine, Surgery, Paediatrics and Psychiatry and have fully reported upon the prescribed number of cases.

6. He must also have attended the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.

7. Every candidate must also have administered anaesthetics, under direction, at least six times, and have assisted at not less than six autopsies.

REQUIREMENTS FOR LICENCE

Candidates accepted for admission are reminded that it is their personal responsibility to ensure that they fulfil all the licensing requirements of the country in which they intend to practise medicine. A University degree does not confer the right to practise. In each province of Canada, in each one of the United States and in all other countries the authority to license is vested in a Licensing Body which has its own special laws and requirements. In many cases a special standard of general education is insisted upon before beginning the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained.

Candidates accepted for admission should therefore communicate as soon as possible with the licensing body of the country in which they intend to practise and obtain from that licensing body the necessary instructions.

N.B. — In order that disappointment and loss of time may be avoided, the University requires Canadian students to register with the licensing body of their home province before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:

QUEBEC — Dr. Gérald LaSalle, 1896 Dorchester St. West, Montreal 25, P.Q.

Ontario — Dr. J. C. C. Dawson, 174 St. George St., Toronto 5, Ont.

New Brunswick — Dr. John R. Nugent, 112 Carleton St., Saint John, N.B. Nova Scotia — Dr. M. R. Macdonald, Victoria General Hospital, Halifax, N.S. Prince Edward Island — Dr. R. G. Lea, 170 Fitzroy St., Charlottetown, P.E.I. Manttoba — Dr. M. T. Macfarland, 601 Medical Arts Building, 404 Graham Ave., Winnipeg 1, Man.

Alberta — Dr. W. Bramley-Moore, 9901 - 108th Street, Edmonton, Alta. Saskatchewan — Dr. G. W. Peacock, 932 Spadina Crescent E., Saskatoon, Sask.

BRITISH COLUMBIA — Dr. Lynn Gunn, 1807 West 10th Avenue, Vancouver 9, B.C.

NEWFOUNDLAND - Dr. Cluny Macpherson, P.O. Box 5279, St. John's, Nfld.

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In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, 77 Metcalfe Street, Ottawa 4, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance at lectures, practical work, and clinics are also accepted by the various examining boards in Great Britain.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

GRADUATE COURSES LEADING TO DIPLOMAS IN THE CLINICAL DEPARTMENTS OF THE FACULTY OF MEDICINE

The Faculty of Medicine conducts graduate courses leading to Diplomas in Anaesthesia, Neurology and Neurosurgery, Psychiatry, Radiology and Urology.

ENQUIRIES

Initial enquiries and enquiries of a general nature should be addressed to the Executive Secretary of the Faculty of Medicine.

Enquiries about the details of individual Diploma Courses should be addressed to the Chairman of the Department concerned.

REQUIREMENTS FOR ENTRANCE

The minimum requirements for entrance to a Diploma Course are (a) a degree from an approved Medical College or School and (b) at least one year's interneship. Details of the requirements are set forth under the individual Diplomas.

Credit may be given for study completed elsewhere than at McGill University, but to qualify for a Diploma, the student must spend at least two years of graduate study and training in a clinical department of the Faculty of Medicine of McGill University.

APPLICATION FOR ADMISSION

Application forms may be obtained from the Executive Secretary of the Faculty of Medicine or the Chairman of the Department concerned. The completed form should be submitted by the candidate to the Chairman of the appropriate Department. If the application is approved by the Department, this form is then sent to the Dean of the Faculty of Medicine for his approval.

FEES

There is a registration fee of ten dollars to be paid each year on registration except when the student is enrolled in the Faculty of Graduate Studies and Research.

Certain of the Diploma Courses require the payment of fees in addition to the annual registration fee. Detailed information concerning these fees may be obtained by writing the Chairman of the Department concerned.

REGISTRATION

The various Diploma Courses in the clinical departments of the Faculty of Medicine lead to the award of diplomas by McGill University. Every student enrolled in such a course must therefore be registered as a student of McGill University.

On beginning the actual course of study leading to a Diploma the candidate must complete three copies of the Sessional Application Form. These are obtain-

able from the Secretary of the Faculty of Medicine or the Chairman of the Department concerned. These forms, completed by the student in triplicate, are submitted to the Chairman of the Department for his signature and then to the Dean of the Faculty of Medicine for his signature. One of the three forms will be retained by the Dean and the other two are to be taken by the candidate to the office of the Registrar of McGill University. Following registration at the Registrar's Office the candidate must proceed to the Cashier's Department to pay such fees as may be required. After registration and payment of fees have been completed the student returns one copy of the form to the Chairman of the Department and keeps the other in his own possession.

These procedures of completion of the Sessional Application Form in triplicate, with signing by the Chairman of the Department and the Dean, registration at the office of the Registrar, and payment of fees must be carried out *annually* at the beginning of each year of the Diploma Course. If the student has been posted to an out-of-town centre for the session involved registration forms will be mailed to

him by the Registrar, on request.

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The final date for registration is October 1. If a candidate is permitted to begin a Diploma Course later than October 1, registration must be carried out within one month of the commencement of the course.

If, during his academic year, the student is enrolled in the Faculty of Graduate Studies and Research, he must complete the procedures described above in addition to those required by the Faculty of Graduate Studies and Research, except that a registration fee for the Diploma Course is not required for that particular year.

It is the responsibility of the student to ensure that the Sessional Application Forms are completed and that registration and payment of fees are carried out.

ENROLMENT AS PARTIAL STUDENT IN FACULTY OF GRADUATE STUDIES AND RESEARCH

In the case of a student who is not proceeding to an M.Sc. or Ph.D., but for whom the committee in charge, on the recommendation of the tutor, considers it important that the student should spend some time in study in one of the medical sciences, individual arrangements will be made by the Chairman of the Department, either directly or through the student's tutor with the Chairman of the Medical Science concerned. Such students will be enrolled in the Faculty of Graduate Studies and Research and will be governed by the rules and regulations of this Faculty in regard to fees, etc., applicable to partial students.

COURSES OF INSTRUCTION

DEPARTMENT OF ANAESTHESIA

Associate Professor — R. G. B. GILBERT (Chairman)

Wellcome Research Professor — J. G. ROBSON

Assistant Professors — G. F. Brindle, P. R. Bromage, W. G. Cullen, H. T. Davenport, Gladys Ellison, R. S. Ferguson, A. B. Noble, D. J. Power, J. B. I. Sutherland.

Lecturers — J. J. Kelly, A. W. MacDonald, A. Matzko, P. Otton, J. K. Rosales, C. A. Sheridan, F. R. H. Wrigley, J. E. Wynands.

Demonstrators — D. A. Firth, D. Gillies, E. W. Larking, J. J. McGrath, D. J. L. MacWatt, A. N. Mungall, A. Petrasak, P. Quan, F. A. Robillard.

UNDERGRADUATE COURSES

A student in Medicine, before reaching that part of the curriculum which deals with Anaesthesia, will have acquired during the earlier years at the University some incomplete, but important knowledge of Anaesthesia while taking courses in Anatomy, Physiology, Biochemistry, Pharmacology and Pathology.

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In the Third Year he joins a small group which attends a series of tutorial classes taken by a senior anaesthetist. At these sessions, he will be instructed in the physio-pathology of patients undergoing anaesthesia and surgery which will serve as a background for the administration of anaesthesia.

In the Fourth year a period of one week is spent in the operating room. The student is assigned to an anaesthetist each morning from 8-12 while in the afternoon from 1:30 - 2:30 he attends a didactic session concerning the procedures he has witnessed.

Also in this year the one month "Period of Election" may voluntarily be spent in the Department of Anaesthesia of one of the University hospitals. This presents opportunity for additional supervised clinical work in the operating room, the recovery room and the intensive care unit.

GRADUATE AND CONTINUING EDUCATION COURSES

Diploma in Anaesthesia (Dip. Anaes.)

Minimum prerequisites for entry to the Diploma Course in Anaesthesia are a degree from an approved Medical College or School and one year's rotating interneship in an approved hospital. Foreign students may be subject to further requirements, depending on circumstances.

Applications for admission should be addressed to the Chairman, Department of Anaesthesia, McGill University.

The course is of three years duration. Credit may be given up to one year for work done elsewhere. Candidates, once enrolled, may under certain circumstances spend one of the three years at another centre, provided this meets with the approval of the Chairman of the Department. In all instances, to qualify for the Diploma the student must spend at least two years of graduate study in the Department of Anaesthesia of McGill University.

Each student is assigned for clinical work to one of the participating hospitals. Having spent six or twelve months in the hospital to which he was first posted, the student is then rotated every six months through a number of hospitals within this framework. Some of the hospitals are specialized while others are general.

During each appointment of six months, the Residents are directed by the staff members of the particular hospital where that residency is being served. Seminars are held weekly according to a programme which is the same for all hospitals. Some departments hold sessions which are set aside for review of the literature, while others have special sessions for the discussion of interesting cases. All the hospitals have excellent library facilities, and the libraries of the medical faculty are also accessible.

Every Monday evening a meeting is held for all the anaesthetists in the city, and any visitors who wish to attend. The students on the course are required to be present. At these meetings there may be a guest speaker, or reports of interesting cases. At each meeting one of the members of the Diploma Course reads a twenty minute summary of a specially prepared essay. These essays form one of the requirements of the course, the preparation of which teaches the use of the library and the critical appraisal of the literature, while the delivery is a useful experience in public speaking.

Certain senior members of the Department of Anaesthesia who also hold appointments in the Basic Science departments give the Basic Science lectures.

Their lectures are specifically fashioned to teach Applied Basic Science as related to Anaesthesia. In the First year, a graduate student will take Anatomy and Pharmacology, in the Second year Physiology and Biochemistry, while in the Third year the whole relationship of the Basic Sciences to Anaesthesia will be reviewed by systems in an integrated manner. Examinations are held at the discretion of those in charge of the Basic Science courses.

Within the Department of Anaesthesia at McGill University is an Anaesthesia Research Department which is generously financed by the Wellcome Trust. This Department is directed by Professor J. G. Robson. Professor Robson plays an important part in the academic teaching of members of the course.

The fee of the course is \$100.00 per annum, payable at the commencement of each year to the Accounting Department of McGill University.

The granting of the Diploma is subject to complete satisfaction in all the clinical rotations and Applied Basic Science courses. The Chairman and Chiefs of Clinical Departments reserve the right to dismiss at any time all those whose work is unsatisfactory or who appear to have chosen the wrong medical specialty.

Further information may be obtained by writing the Chairman, Department of Anaesthesia, McGill University.

Revision and Refresher Course

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A one-week revision and refresher course in Anaesthesia is conducted in September for those sitting examinations and for general practitioners engaged in Anaesthesia.

Information about this course may be obtained by writing the Chairman, Department of Anaesthesia, McGill University.

DEPARTMENT OF ANATOMY

Professors — C. P. Leblond (Chairman), S. M. Banfill, Y. Clermont, J. Langman.

Assistant Professor — N. J. NADLER.

Lecturers — B. R. Fitz-Gerald, B. Kopriwa, B. Perey, H. van Heyningen, E. W. Workman.

Sessional Lecturers — C. Huckins, H. Warshawsky.

REQUIRED COURSES

1. Gross Anatomy.

First year: Dissection and lectures cover the gross anatomy of the body except the Head, Neck and Brain. The course includes Embryology and Surface and Radiological Anatomy.

Second year: Dissection and lectures on the Head, Neck and Brain. This course is followed by 2. Introduction to the Central Nervous System, listed below, and a combined examination is held at the end of the year.

2. Introduction to the Central Nervous System. For Second year students and conducted with the co-operation of the Departments of Neurology and Neurosurgery, Physiology and Psychology. This course is listed under the Department of Neurology and Neurosurgery as 2A.

3. Applied Anatomy. Designed for graduate students.

Textbooks: J. C. B. Grant, A Method of Anatomy, 6th ed. (Williams and Wilkins, 1958). D. F. Davies and F. Davies, Gray's Anatomy, 33rd ed. (Longmans 1962).

Atlas: J. C. B. Grant, An Atlas of Anatomy, 5th ed. (Williams and Wilkins, 1962).

Practical Manual: J. T. Aitken et al., A Manual of Human Anatomy, 5 vols. (Livingstone 1956-58).

Surface Anatomy: A. B. Appleton et al., Surface and Radiological Anatomy, 4th ed. (Heffer 1958).

Introduction to Medicine. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry and Physiology, in rotation.

ELECTIVE COURSES

The Department provides, as far as material will permit, facilities for advanced work or revision. The Chairman of the Department should be consulted by anyone wishing to undertake work of this nature.

4. Advanced Neuro-Anatomy. Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton. The class is limited to ten. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.

Microscopic Anatomy

REQUIRED COURSE

6. Histology. The study of the cytology and structure of tissues and organs. Textbooks: A. W. Ham and T. S. Leeson, Histology, 4th ed. (Lippincott, 1961); W. Bloom and D. W. Fawcett, A Textbook of Histology, 8th ed. (Saunders, 1962).

Embryology

REQUIRED COURSE

8. The Study of Human Developmental Anatomy. This course is integrated with 1. Gross Anatomy.

Textbooks: J. Langman, Medical Embryology, (Williams and Wilkins 1963); L. A. Arey, Developmental Anatomy, 6th ed. (Saunders 1954); W. J. Hamilton et al., Human Embryology, 2nd ed. (Heffer 1952).

For graduate courses, see Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF BACTERIOLOGY AND IMMUNOLOGY

Professors — R. W. REED (Chairman), J. W. STEVENSON.

Associate Professors — G. W. Bartlett, C. A. Butas, G. G. Kalz, B. H. Matheson, S. I. Vas.

Assistant Professors — P. M. Cooke, M. Franklin, L. Kapica, E. Mankiewicz, A. M. Masson.

Lecturers — S. Nommik, F. Prissick, R. Silov.

Demonstrators — K. UNLIGIL-BERGER, E. WOOD.

Teaching Fellow — M. FRANKLIN.

All lectures and laboratory periods are held in the Pathological Institute.

20. Medical Microbiology.

Second Year. This course deals with the general principles of medical microbiology and immunology. Both lectures and laboratory are concerned with the anatomy and physiology of infectious agents, theories of infection and immunity and a systematic study of bacteria, viruses, rickettseae, fungi and parasites pathogenic to man.

25. Dental Microbiology.

OTHER COURSES

The Department offers a range of courses leading to the Honours B.Sc. in Bacteriology and is well-equipped for graduate research leading to the M.Sc. and Ph.D. Training in clinical bacteriology is available in the service laboratories of the Royal Victoria Hospital and the Montreal Neurological Institute located in the Department.

See Announcements of the Faculty of Arts & Science and the Faculty of Graduate Studies.

DEPARTMENT OF BIOCHEMISTRY

Professors — K. A. C. ELLIOTT (Chairman), O. F. DENSTEDT, J. H. QUASTEL.

Associate Professors — E. A. Hosein, D. Rubinstein, M. Saffran, P. G. Scholefield, S. Solomon.

Assistant Professors — Rose M. Johnstone, J. H. Spencer.

Lecturers — M. Davies, Eleanor Harpur, M. A. Houseley, Sally MacLachlan.

FIRST YEAR

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Biochemistry-Physiology 1. Mon. to Sat., at 9 a.m.

Biochemistry-Physiology 1L.

Laboratory: six hours a week.

Introduction to Medicine. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry, and Physiology, in rotation.

One hour per week from October.

THIRD YEAR ELECTIVE

3E. Research in Biochemistry and Physiology. A limited number of students may take Biochemistry or Physiology as their elective subject in the Third year. These students will be given the opportunity to participate in research projects in the Department.

OPTIONAL ADDITIONAL COURSES

For students who are interested in additional studies in Biochemistry the following courses are recommended:

45. Metabolism. The nature of biological oxidations and reductions and the enzymes concerned therewith, especially from the point of view of transfer of energy; the intermediary metabolism of organic foodstuffs; the hormonal control of metabolism.

First term: 2 hours Second term: 3 hours

601-701. Specialties and Recent Advances in Biochemistry. In this course groups of lectures will outline special fields of Biochemistry in which advances have been rapid. The content of the course will change from year to year.

One hour

This course is open only to students who have previously taken advanced courses in Biochemistry.

OTHER COURSES

For other undergraduate courses in Faculty of Arts and Science, see Announcement of that Faculty. For graduate courses, see Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF EPIDEMIOLOGY AND HEALTH

Strathcona Professor — J. C. McDonald.

Associate Professors — D. S. Fleming, C. W. MacMillan, Margaret E. Nix. Assistant Professor — Marian Bain.

Lecturers — D. Bews, H. E. Burke, F. M. Jones, Milton G. Townsend, Frederick Wiener.

Demonstrators — M. A. HICKEY, EDITH M. MANKIEWICZ.

FIRST YEAR

Medical Statistics.

12 lectures.

C. W. MacMillan

SECOND YEAR

Public Health & Preventive Medicine. Public Health Organization and Administration, Vital Statistics, Principles of Epidemiology, Nutrition, Health Education. 24 lectures; nine demonstrations (2½ hours each). Staff

THIRD YEAR

Public Health and Preventive Medicine. Applied Epidemiology, Industrial Toxicology, Prevention and Control of specific diseases.

12 lectures; 12 concentration periods (2½ hours each).

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Text and Reference Books: M. J. Rosenau, Preventive Medicine and Public Health, ed. by K. F. Maxcy, 8th ed. (Appleton, 1956); W. G. Smillie and E. D. Kilbourne, Preventive Medicine and Public Health, 3rd ed. (Macmillan, New York, 1963); H. R. Leavell and E. G. Clark, Preventive Medicine for the Doctor in his Community, 2nd ed. (McGraw-Hill, 1958); W. Hobson, The Theory and Practice of Public Health, (Oxford University Press).

Medical Ethics and Jurisprudence

The course in Medical Ethics and Jurisprudence consists of 12 lectures, given to the class as a whole, in the second term of the Second year.

HISTORY OF MEDICINE

Professor -

REQUIRED COURSES

- 1. Introductory Course (First year). A series of 12 lectures to provide an historical orientation to the student entering upon the study of medicine.
- 2. History of Medicine (Second year). A series of 12 lectures providing a survey of the history of relationships between medicine and general culture.

DEPARTMENT OF INVESTIGATIVE MEDICINE

Professor — J. S. L. BROWNE (Chairman).

Associate Professor — C. J.-P. GIROUD.

Assistant Professors — A. CARBALLEIRA, N. KALANT.

Research Associate — S. SOLOMON.

Honorary Lecturer — J. GENEST.

Lecturers — IVAN BECK, C. I. CHAPPEL, R. SCHUCHER, J. STACHENKO,

The Department offers courses leading to the degrees of M.Sc. and Ph.D. in the Faculty of Graduate Studies and Research and provides research facilities for these students or for other persons proceeding to graduate degrees, diplomas or for other qualified individuals. The Department is also prepared to make arrangements to offer elective courses for Medical undergraduate students.

The courses and the direction of research in this department are given in close collaboration with the Department of Experimental Medicine and members of either department give lectures and direct the research of graduate students registered in the other.

Students may work either in the Medical Building or in one of a number of hospitals depending on the type of work done (clinical or laboratory) or upon the individual directing the research. Part of the function of the department is the correlation of clinical investigation being done at various hospitals.

Students holding either the M.D. or B.Sc. degree or its equivalent may enter the department provided that their standing is acceptable. For the list of courses and further details see the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF MEDICINE

Professors — RONALD V. CHRISTIE (Chairman), D. G. CAMERON.

Associate Professors — D. V. Bates, J. C. Beck, E. H. Bensley, G. A. Copping, G. E. Craig, R. R. Forsey, A. F. Fowler, G. W. Halpenny, W. H. P. Hill, M. M. Hoffman, J. G. Howlett,

A. L. JOHNSON, LOUIS LOWENSTEIN, LESTER McCallum, E. E. McGarry,

M. McGregor, H. S. MITCHELL, E. A. S. REID, BRAM ROSE,

S. R. TOWNSEND.

Assistant Professors — L. J. Adams, M. Aronovitch, R. C. Bennetts, F. M. Bourne, Lauder Brunton, H. E. Burke, B. A. Cooper,

N. K. DELEEUW, J. B. DOSSETOR, S. O. FREEDMAN, C. H. HOLLENBERG,

L. G. Johnson, F. Kalz, M. Kaye, R. D. McKenna, J. M. McKenzie,

K. R. Mackenzie, J. F. Meakins, I. G. Milne, C. J. Pattee, L. Shapiro,

P. B. STEWART, K. A. SOWDEN, A. T. THOM.

Lecturers — Eva Arendt, C. M. Ballem, C. S. Barker, R. G. Baxter, J. O. W. Brabander, J. L. Brandt, S. Brown, Lloyd Caswell, R. A. Cleghorn, William Cohen, R. F. P. Cronin, J. H. Darragh, P. A. Edwards, A. Gold, Alec Gordon, R. G. M. Harbert, J. L. Hutchison, G. E. Joron, A. G. Kendall, D. G. Kinnear, A. Knight, L. Kovacs, A. W. Lapin, W. Leith, B. A. Levitan, A. D. Macdonald, C. C. MacDonald, D. J. MacIntosh, J. R. Martin, A. Miller, J. A. P. Pare, R. E. G. Place, J. S. Polson, T. L. Quintin, Paula Schopflocher, J. A. Shanks, C. H. Stacey, R. L. Stanford, David Stubington, P. P. Telner, P. G. Weil, G. E. Wight, D. H. Woodhouse.

Demonstrators — J. R. Albert, A. Aronoff, David Barza, I. T. Beck, T. A. Brown, Parker Chesney, M. S. Cohen, S. R. Cooper, S. Eidinger, C. M. Flint, P. A. Flint, C. A. Goresky, T. R. Hale, Allan Hickey, L. J. Korenberg, M. Kunstler, W. A. R. Laing, I. Lapin, W. K. MacDonald, Nadia MacIntosh, D. G. MacKay, D. M. Marcus, W. E. H. Mason, P. Mlynaryk, T. Monks, W. H. Palmer, Bernard Pollak, L. Redmond, S. L. Richardson, Jack E. Rubin, A. Shulman, P. Sommerfreund, K. R. Stewart, T. J. Sullivan, D. L. Thomson, E. A. Turcot, H. A. Warner, J. Wener, I. Winkler, D. Wiselberg, J. C. G. Young.

Experimental Medicine

Professors — Francis P. Chinard, Eleanor H. Venning.

Associate Professors — RONALD HOBKIRK, SAMUEL SOLOMON.

Assistant Professors — Margaret R. Becklake, L. Goodfriend, D. G. Johns, B. Kovacs, Maxwell Richter, David Rubinstein, D. B. Tonks.

Lecturers — P. A. Bradley, I. Gyenes, P. T. Macklem, D. A. Rotenberg.

Demonstrators — DAVID EIDINGER.

N.B.: See Announcement of the Faculty of Graduate Studies and Research.

THE UNDERGRADUATE CURRICULUM IN THE DEPARTMENT OF MEDICINE

FOREWORD

The object of the following courses is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease, to afford a knowledge of the technique, and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students, teachers, and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy, and biochemistry with clinical medicine is emphasized—not only in the pre-clinical years, but later in hospital and laboratory—thus affording students a modern scientific medical training. The importance of regarding the patient as a person is emphasized throughout.

Unusual facilities are afforded at the Royal Victoria Hospital and at the Montreal General Hospital where there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

REQUIRED COURSES

SECOND YEAR

Course II 1—Integration of Physiology, Biochemistry and Anatomy with Medicine.

Time — Last term of Second year: three lectures a week.

Place — Medical Building.

Subject Material — This course covers in a systematic manner the deviations from the normal of the physiological and biochemical functions. These are correlated so as to explain symptoms and signs which may be found on physical examination as detected by clinical methods dealt with in Course II 2. This course is so interpreted as to give the student a panoramic view of these disturbances with a proper perspective.

Course II 2-A Practical Course in Clinical Methods.

Time - Third term of Second year.

Place — The Royal Victoria, Montreal General, and Queen Mary Veterans'

Subject — Practical instruction 6 hours a week on Normal and Abnormal Physical Signs.

Course II 3—Laboratory Diagnosis.

Time - Last term of Second year.

Place - Medical Building.

Subject — Instruction and practice 2 periods a week in microscopy as applied to clinical medicine.

Dr. Lauder Brunton and Assistants

THIRD YEAR

Course III 4—Case Reporting

During the trimester in Medicine students will be assigned patients in the wards. They will be required to write case histories, make a general examination, note progress, and do such laboratory investigations as are within their scope and have access to all other Laboratory and X-Ray findings. Teaching Fellows will be available to assist students in this work. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

Course III 5—Clinico-Pathological Conference

Time — Weekly during the medical term.

Place — The Royal Victoria and the Montreal General Hospitals.

Course III 6. Integration of Physiology, Biochemistry and Anatomy with Medicine — a continuation of course II.

One lecture a week for 2 terms, two lectures a week for the third term.

Course III 7—Therapeutics. A course of lectures on the principles of therapeutics and on the treatment of various diseases for which clinical material is not readily available.

FOURTH YEAR

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Course IV 8—Case Reporting. An effort is made to enable the student in the Fourth year to take an active part in the care of the patient, both in the wards and in the Out-door Clinics. One month will be spent on the wards and one month in the "Comprehensive Clinic" of the outpatient department. Bedside clinics

and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

Course IV 9—Clinical Pathological Conference.

Time — Once a week during the medical term.

Place — The Royal Victoria and the Montreal General Hospitals.

For graduate courses in Medicine, see under Department of Investigative Medicine in this Announcement and under Department of Experimental Medicine in Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

Professor of Neurology and Neurosurgery — THEODORE RASMUSSEN (Chairman).

Professor of Neurology — Francis McNaughton.

W. V. Cone Professor of Neurosurgery — WILLIAM FEINDEL.

Professor of Experimental Neurology — HERBERT JASPER.

Professor (Biochemistry) and Director Donner Laboratory of Neurochemistry — K. A. C. Elliott.

Associate Professors of Neurology — D. W. Baxter, D. L. Lloyd-Smith, Preston Robb.

Associate Professors of Neurosurgery — GILLES BERTRAND, JOSEPH STRATFORD.

Associate Professor of Neurological Radiology — DONALD MCRAE.

Associate Professor of Experimental Neurology — Pierre Gloor.

Assistant Professors of Neurology — J. B. R. Cosgrove, Irving Heller, Reuben Rabinovitch, W. F. T. Tatlow.

Assistant Professor of Neuropathology — GORDON MATHIESON.

Assistant Professors of Neurosurgery — John Blundell, Charles Branch, Harold Elliott.

Assistant Professor of Neurochemistry — LEONHARD WOLFE.

Assistant Professor of Clinical Psychology — BRENDA MILNER.

Assistant Professor in Experimental Neurology — HANNA PAPPIUS.

Lecturers in Neurology — Bernard Graham, Allan Morton, Allan Sherwin.

Lecturer in Neurological Radiology — R. ETHIER.

Lecturer in Neurosurgery — Phanor Perot, H. Garretson.

Demonstrators in Neurology — D. Guzman, G. Karpati, N. Katf, F. Redding, A. Rose.

Demonstrators in Neurosurgery — R. Ford, M. Gueramy, F. Maroun, O. Solis.

Demonstrator in Neuropathology — A. GINDIN.

Demonstrator in Electroencephalography — Lewis Henderson.

Research Associates — Kenneth Reid, Lucas Yamamoto.

Fellows of the Montreal Neurological Institute — Bartolo Barone,
Gastone Celesia, Flavio Coceani, Lloyd Dayes, Robert Ford,
Guy Geoffroy, Arthur Gindin, Manoucher Gueramy,
Anthony Gorman, Danilo Guzman, Joseph Hanaway,
Robert Hansebout, George Karpati, Nicola Katf, Kasuo Kinoshita,
Jean-Louis Lalonde, François Laroche, Gustavo Lazos,
Norman Lush, Falah Maroun, Theodore Raiz, Foster Redding,
Arthur Rose, Keith Seamans, Herbert Silfvenius,
Orlando Solis-Quiroga, Roy Steinberg, Manuel Tallon-Zarza,
George Varughese, Felipe Valle, Bryce Weir, Andrew Wong,
Chong-bun Yap, Jaime Zamuco.

SECOND YEAR

2A Introduction to the Central Nervous System. Combined course given by the Departments of Anatomy, Neurology and Neurosurgery, Physiology and Psychology. Two hours lecture, three hours laboratory and one hour demonstration per week, during the second term and two hours lecture per week during the third term.

Professors McNaughton, Jasper, Burns and Hebb

2B Instruction in Clinical Examination of the Nervous System. Given in conjunction with the Department of Medicine in the third term.

2C Neuropathology. Given in conjunction with the Department of Pathology in the third term.

Professor Mathieson

2D Applied Physiology (Department of Medicine). Six lectures.

Professors Rasmussen, McNaughton and Staff

THIRD YEAR

3A Clerkship in Neurology and Neurosurgery. Four afternoons per week for three weeks, at the Montreal Neurological Institute.

Professors Rasmussen, McNaughton and Staff

3B Survey Lectures, Diseases of the Nervous System. 12 lectures given during the first term.

Professors Rasmussen, McNaughton and Staff

3C Clinics and Conferences in Conjunction with the Departments of Medicine and Surgery.

FOURTH YEAR

Clinics and Conferences in Conjunction with the Departments of Medicine and Surgery.

ELECTIVE COURSES

Neuroanatomy.

600. This course is given in combination with course 2A "Introduction to the Central Nervous System."

601. Additional graduate seminars will be held co-ordinated with Course B.

602. Preparation of a term paper on a neuroanatomical subject as arranged.

603. Advanced Neuroanatomy for selected group; times to be arranged.

Professor McNaughton

Neurophysiology.

610. Lectures and examination together with undergraduate course Neurology and Neurosurgery 2A "Introduction to the Central Nervous System."

611. Weekly seminars and demonstrations co-ordinated with Course A-2 (4 months, beginning in December). Mondays, 4:30 to 6:00 p.m.

612. Under exceptional circumstances, a paper on a neuro-physiological subject may be written by special arrangement as a substitute for 610.

Professors Jasper, Elliott and Gloor

620. Colloquium in Clinical Neurology.

1 hour weekly, clinics and lectures, Wednesdays, 5:00 p.m. M.N.I. (9 months).

Staff and Visiting Lecturers

630. Seizure Mechanisms and Cerebral Localization: Clinical Electroencephalographic, and Roentgenographic Conference.

M.N.I. 1½ hours weekly (9 months). Tuesdays, 4:00 to 5:30 p.m.

Professors Rasmussen, Jasper, Gloor, McRae and Milner

640. Outline of Neurochemistry.

Instruction in Neurochemistry in addition to that provided in course B-2 may be obtained by special arrangement.

Professor Elliott

Neuropathology.

650. Six months laboratory work in Neuropathology.

Professors Mathieson and Bertrand

651. Conference in Neuropathology, Thursdays, 4-5 p.m.

Professors Mathieson and Bertrand

652. Introduction to Histopathology of the Nervous System. A short basic course for a limited number. By special arrangement with Professor Mathieson.

For graduate credit, courses 650 and 651 are required. Under special circumstances written and/or oral examinations may be substituted for 650 and 652.

Neurological Radiology.

660. Lecture demonstrations (3 months beginning in September). Mondays 4:30 to 6:00 p.m.

661. Colloquium, 1 hour weekly (9 months) Mondays, 9:00 a.m.

Professor McRae

Diploma in Neurology (Dip. Neurol.)

Minimum prerequisites for entry to the Diploma Course in Neurology are a degree from an approved Medical College or School and one year's interneship in an approved hospital.

Applications for admission should be addressed to the Chairman, Department of Neurology and Neurosurgery, McGill University.

The course is of four years' duration and consists of the following units:

A. One year of work in one of the related basic sciences, such as Neuropathology, Neurophysiology (including E.E.G.), Neuroanatomy, Neurochemistry, Neuroradiology, Endocrinology, etc. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery, or in some other department of McGill University on the recommendation of the Chief of the Service and with the approval of the Chairman of the Department of Neurology and Neurosurgery. Preparation of a thesis or a paper approved for submission for publication by the Laboratory Chief and the Professor of Neurology and Neurosurgery (Dr. Rasmussen), will be required. This year may be used for work toward a Master of Science degree in the Faculty of Graduate Studies and Research of McGill University (see Announcement of the Faculty of Graduate Studies and Research for requirements and registration procedure).

- B. Six months in Psychiatry in the Department of Psychiatry at McGill University. (Note: Under special circumstances the candidates may substitute six months in the Department of Psychiatry in some other accredited hospital or university.)
- C. Six months in Neurosurgery at the Montreal Neurological Institute. (Note: Under special circumstances a candidate may substitute neurosurgical training received in the neurosurgical department of some other accredited hospital or university or additional training in Neurology or Medicine.)

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D. Two years in clinical Neurology, one of which must be at the Montreal Neurological Institute. The other year may be taken at other neurological centres with the approval of the Professor of Neurology and Neurosurgery and on recommendation of the Chief of the Neurological Service.

Before receiving the Diploma the candidate must successfully pass an oral examination in clinical Neurology and Neurosurgery conducted by an internal and an external examiner.

Further information may be obtained by writing the Chairman, Department of Neurology and Neurosurgery, McGill University.

Diploma in Neurosurgery (Dip. Neurol. Surg.)

Minimum prerequisites for entry to the Diploma Course in Neurosurgery are a degree from an approved Medical College or School and one year's interneship in an approved hospital.

Applications should be addressed to the Chairman, Department of Neurology and Neurosurgery, McGill University.

The course is of four years' duration and consists of the following units:

- A. One year of work in one of the related basic sciences, such as Neuropathology, Neurophysiology (including E.E.G.), Neuroanatomy, Neuroradiology, Endocrinology, etc. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery, or in some other department of McGill University on the recommendation of the Chief of the Service and with the approval of the Chairman of the Department of Neurology and Neurosurgery. Preparation of a thesis or a paper approved for submission for publication by the Laboratory Chief and the Professor of Neurology and Neurosurgery (Dr. Rasmussen), will be required. This year may be used for work toward a Master of Science degree in the Faculty of Graduate Studies and Research of McGill University (see Announcement of the Faculty of Graduate Studies and Research for requirements and registration procedure).
- B. Six months in clinical Neurology at the Montreal Neurological Institute. (Note: Under special circumstances, credit for six months of clinical Neurology in some other accredited hospital or university department of Neurology or additional training in Neurology or Surgery may be accepted.)
- C. Six months in special work in a related field such as Neurophysiology, Neuroanatomy, Neuropathology, Biochemistry, Endocrinology, Metabolism, Psychiatry, etc., acceptable to the Chairman of the Department of Neurology and Neurosurgery.
- D. Two years in clinical Neurosurgery at the Montreal Neurological Institute.

 Note: Either unit A or C must be carried out in the Department of Neuropathology at the Montreal Neurological Institute.

Before receiving the Diploma the candidate must successfully pass a final oral examination on clinical Neurology and Neurosurgery conducted by an internal and an external examiner.

Further information may be obtained by writing the Chairman, Department of Neurology and Neurosurgery, McGill University.

For graduate courses in Neurology and Neurosurgery, see also Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

Professors — G. B. MAUGHAN (Chairman), K. T. MACFARLANE.

Associate Professors — W. R. FOOTE, J. P. A. LATOUR, T. PRIMROSE, G. A. SIMPSON, F. J. TWEEDIE.

Assistant Professors — M. Hendelman, J. L. Macarthur, J. H. Routledge, D. W. Sparling, M. H. V. Young.

Lecturers — P. R. Blahey, H. B. Bourne, Grace Donnelly, Simon Gold, J. S. Henry, Jr., E. A. MacCallum, Harry Oxorn, P. C. Tremblay.

Demonstrators — G. H. Arronet, R. P. Beck, J. R. Dodds, W. D. Fraser, C. C. Lindsay, R. M. Parsons.

Teaching and Administrative Assistants — J. R. O'BRIEN, R. M. H. POWER.

Undergraduate Course

The course is designed to impart a fundamental knowledge of the processes of human parturition, gynaecology and the care of the new-born. The student is introduced to the subject in his Second year. Thereafter in both his Third and Fourth years, intensive teaching is carried out using to the full the facilities of the Royal Victoria Montreal Maternity Hospital and to a lesser extent the gynaecological wards of the Montreal General Hospital. The Royal Victoria Montreal Maternity Hospital is the largest teaching unit of its kind in Canada and the clinical material to be found in its wards is unsurpassed.

REQUIRED COURSES

SECOND YEAR

An introductory course of twelve lectures is given by Professor Maughan during the last term. Following a review of the embryology and anatomy of the female genital tract the particular biochemical and endocrine aspects of the subject are taken up. The course closes with a description of the physiology of pregnancy and labour. Lectures are held in the Medical Building, McGill University.

THIRD YEAR

OBSTETRICS

During this year, twenty-eight lectures are given to teach the fundamentals of pregnancy, labour and the puerperium by the members of the Royal Victoria Montreal Maternity Hospital Staff. Following this series the Montreal General Hospital Staff conduct five lecture classes as an introduction to Gynaecology. Medical Building, McGill University.

An intensive six weeks of instruction in Obstetrics is given each group of students during the academic year by the Staff of the Royal Victoria Montreal Maternity Hospital. Student groups are further divided into smaller tutorial units so that individual students can be given the greatest opportunity to take part in the practical work of the class.

Eighteen hours are devoted to Manikin Instruction. Physical diagnosis at the bedside and Clinical Management in the wards and case rooms are allocated six hours each.

Professor Maughan conducts six seminars on the Principles and Theory of Obstetrics and a further six hours are taken up by the members of the Staff in reviewing current work in the subject.

Six hours of gynaecological colloquia are given by a senior member of the Royal Victoria Montreal Maternity Hospital Staff to augment the gynaecological teaching noted below.

Students are also required to attend Departmental Ward Rounds in the Royal Victoria Montreal Maternity Hospital when interesting cases are discussed and lectures given on the latest advances in the field.

Six classes are given by Doctor G. Nickerson, Paediatrician-in-Chief of the Royal Victoria Hospital and his Staff to introduce the student to the care of the new-born.

GYNAECOLOGY

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Two mornings weekly throughout the six weeks are devoted to the teaching of Gynaecology at the Montreal General Hospital. Each teaching day is divided into three parts — (1) student participation groups or outdoor clinic instruction groups, (2) clinical teaching, and (3) didactic lectures. The student participation groups comprise nine periods devoted to the preparation and presentation of an allotted subject from the standard textbooks and current literature, supervised by a member of the teaching staff. The outdoor clinic instruction groups, with two or three students at a time, are intended to teach the techniques and details of gynaecologic examination with an introduction to commonly encountered gynaecologic problems at first hand. The clinical teaching consists of ward rounds, clinical pathological conferences, and the demonstration of minor gynaecologic operative procedures. The didactic lectures cover twelve major topics in Gynaecology.

Professor MacFarlane and Assistants, Montreal General Hospital

FOURTH YEAR

No formal lectures are given during the intensive four week course in Obstetrics and Gynaecology which is held entirely in the Royal Victoria Montreal Maternity Hospital. Students are coached in small groups and will live in the hospital for at least nine days. While living in, they are expected to participate in the work of the delivery rooms and wards. Written case reports are required and the student's progress is assessed partly on the care taken in the recording of the assigned cases and their follow-up. Teaching is divided between Obstetrics and Gynaecology using the facilities of the indoor and outdoor departments.

An eight hour refresher course in Manikin is given.

Professor Maughan conducts group hospital rounds once a week.

Twenty-four hours are devoted to bedside clinics on antepartum and postpartum management of the obstetrical patient with particular emphasis on the recognition and treatment of complications.

Eight hours of revision seminars.

Professor Primrose

Sixteen hours are devoted to the discussion of problems presented by the students. R.V.M.M.H. Staff

Attendance at Outdoor clinics four afternoons a week is compulsory. Minor gynaecology and antepartum care are taught by the Staff members in charge of the cases. Students are also required to be present at Departmental Staff rounds each Monday morning during term.

Twelve bedside clinics are given in Gynaecology by members of the Staff.

Eight lecture-demonstrations in Gynaecological Pathology are given by Professor Latour and assistants who are also responsible for four hours of clinical instruction on the diagnosis and treatment of genital cancer.

Clinical Endocrinology is reviewed in four sessions of one hour.

Textbooks: N. J. Eastman and L. M. Hellman, Obstetrics (Appleton); Jeffcoate, Principles of Gynaecology (Butterworth); F. W. Roques, Diseases of Women, 10th ed. (Arnold 1959); Harry Oxorn and W. R. Foote, Human Labor and Birth (Appleton 1964).

Graduate Programme

The Department of Obstetrics and Gynaecology directs a five-year graduate programme involving residency training in a number of English-speaking hospitals in Montreal, with lectures and seminars in both pre-clinical and clinical fields and opportunities for research. Minimum prerequisites for entry into this programme are a degree from an approved Medical College or School, one year's rotating interneship, and one year of Surgery or half a year each of Surgery and Medicine at the assistant residency level. Further information may be obtained by writing the Chairman, Department of Obstetrics and Gynaecology, McGill University.

DEPARTMENT OF OPHTHALMOLOGY

Professor — JOHN C. LOCKE (Chairman).

Associate Professor — J. V. V. NICHOLLS.

Assistant Professors — S. T. Adams, Wm. Turnbull, R. J. Viger.

Lecturers — R. A. Bourne, H. A. G. Duncan, L. S. S. Kirschberg, Sean B. Murphy, R. W. Pearman, R. B. Ramsey.

Demonstrators — J. B. Conroy, J. A. Foreman, J. G. Little A. McKinna, P. Rosenbaum.

Undergraduate Courses

The undergraduate work in Ophthalmology is designed to meet the needs of a well-trained general practitioner and embraces the following courses:

SECOND YEAR

1. Routine Examination of the Eye. The various tests used in routine examination of the eye are demonstrated. Instruction in the use of ophthalmoscope is emphasized.

Five hours.

2. Pathology of the Eye. Six hours: two periods of three hours each.

THIRD YEAR

1. Lectures to the Entire Class. A survey of the entire field designed to furnish a background of essential information for the clinical work.

Twelve hours.

2. Practical Ophthalmoscopy. Montreal General and Royal Victoria Hospitals. Nine hours.

3. Elective Course in Ophthalmology. This intensive four-week course is given three times during the latter half of the Third year. The number of students in any four-week period is limited to two.

The classes include attendance at clinics, ward rounds and seminars; periods in the eye operating room; preparation of an assigned topic requiring consultation of current literature.

FOURTH YEAR

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1. Practical Clinical Ophthalmology. Cases from the eye outpatient and indoor services are presented and discussed. Emphasis is on ocular problems that are of greatest moment in general practice.

Nine hours.

Textbooks: Francis H. Adler, Gifford's Textbook of Ophthalmology, 6th ed. (Saunders, 1957); C. A. Perera, May's Manual of the Diseases of the Eye, 22nd ed. (Williams and Wilkins, 1957).

Reference books: W. S. Duke-Elder, Textbook of Ophthalmology, 7 vols. (Mosby, 1932-54); Eugene Wolff, Anatomy of the Eye and Orbit (Blakiston, 1954); Eugene Wolff, Pathology of the Eye, 3rd ed. (Blakiston, 1951); Francis H. Adler, Physiology of the Eye, 3rd ed. (Mosby, 1959).

Graduate Programme

Through the three major teaching hospitals of McGill University, the Department of Ophthalmology conducts a graduate programme of residency training with scheduled lectures, seminars, case presentations and ward rounds. This programme prepares candidates to meet the requirements for Fellowship of the Royal College of Surgeons of Canada and also for the American Board of Ophthalmology. Detailed information concerning this programme may be obtained by writing the Chairman, Department of Ophthalmology, McGill University.

DEPARTMENT OF OTO-LARYNGOLOGY

Professor - W. J. McNally (Chairman).

Associate Professors — D. G. Doehring, R. P. Gannon (Experimental Oto-Laryngology), E. E. Scharfe, E. A. Stuart.

Assistant Professors — H. E. McHugh, E. John Smith.

Lecturers — J. D. Baxter, K. K. Charan, Arnold Grossman, A. Mostoller, L. Peck, G. T. Shimo.

Demonstrators — R. HALL McCoy, R. McMillan, W. H. Novick.

Undergraduate Courses

Instruction in Oto-Laryngology is given to students in the Second, Third and Fourth years and is designed to meet the needs of the general practitioner. The clinical courses are conducted in the wards and outpatient departments of the Montreal General, the Royal Victoria and the Montreal Children's Hospitals. The practical demonstrations are given before small groups of students.

SECOND YEAR

A special demonstration of Ear, Nose and Throat Anatomy on living subjects is given while the students are studying Anatomy of the Head and Neck. Physical

diagnosis is also taught in six demonstrations. The students review the anatomy of the ears, nose and throat and are taught to use the head mirror and the special instruments more commonly used in the examination of these parts.

THIRD YEAR

Clinical instruction in the outdoor clinics and wards is given to small groups in "block time" consisting of consecutive mornings for one week for each group. Twelve lectures on Ear, Nose and Throat subjects are given to this class as a whole during the third term.

FOURTH YEAR

Clinical instruction is carried out in the outpatient departments in small groups and the students are given as much personal supervision as possible. The students attend two clinics per week for eight consecutive weeks and take an active part in the examination and treatment of the patients.

ELECTIVE COURSES

The new curriculum provides for Elective Courses of one month in this specialty.

Graduate Courses

See Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF PAEDIATRICS

Professor — ALAN ROSS (Chairman).

Associate Professors — D. V. Bates, R. L. Denton, A. L. Johnson, E. M. Worden.

Assistant Professors — H. L. Bacal, R. B. Goldbloom, D. A. Hillman, G. H. Nickerson, J. H. O'Neill, C. R. Scriver.

Lecturers — P. Beaudry, Mimi Belmonte, D. K. Clogg, Eleanor Colle, J. H. Elder, F. C. Fraser, J. E. Gibbons, V. C. Goldbloom, Eleanor Harpur, Wanda Jegier, M. Silverberg, R. Usher.

Demonstrators — P. Banister, H. Brickman, H. R. Brodie, J. S. Charters, T. A. Cowan, R. Gourdeau, Elizabeth Hillman, D. R. McCrimmon, A. J. Markus, Sidney Pedvis, P. M. Senecal, L. Stern, H. H. Surchin, W. W. Tidmarsh, Isobel Wright.

Hosmer Teaching Fellow — A. H. FINLEY.

REQUIRED COURSES

1. Lectures:

(a) A series of 6 lecture-demonstrations on Growth and Development in the last term of Second year.

(b) A series of 24 lectures once weekly during the Third year designed to cover the various aspects of Diseases of Children; Nutrition, Hygiene, Infections and Communicable Diseases, Preventive Medicine, etc.

Staff

2. Diseases of the Newborn: Royal Victoria Montreal Maternity Hospital:

- (a) A weekly clinic demonstration to groups of students of the Third year during their obstetrical quarter.
- (b) A weekly lecture to groups of Fourth year students during their four weeks in Obstetrics.
- (c) Two days of direct contact with normal and abnormal newborn infants during block time teaching in final year.

 Staff

3. Clinical Paediatrics:

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- (a) Groups during the final year spend eight weeks entirely at the Montreal Children's Hospital as clinical clerks taking part in bedside clinical conferences and, under supervision, caring for patients in the outpatient department.
- (b) Normal growth and development, the care and feeding of the normal infant, immunization procedures, and preventive paediatrics are taught at the Child Health Clinic in the Montreal Children's Hospital.

 Staff
- (c) A series of demonstrations to groups of students on the common infectious diseases is given at the Alexandra Hospital as part of the instruction of the final year.

 Staff

INSTITUTE OF PARASITOLOGY

Professor — T. W. M. CAMERON (Director).

Associate Professors - K. G. DAVEY, C. E. TANNER.

Assistant Professors — R. P. Harpur, E. Meerovitch, B. J. Myers, G. A. Webster.

REQUIRED COURSES

SECOND YEAR

The animal parasites of man (protozoa, helminths and arthropods) are considered as an integral part of the Second year course in Medical Microbiology. Exotic parasites are discussed briefly.

ELECTIVE COURSES

The Institute not only provides facilities for advanced research work at the Institute of Parasitology, but offers didactic courses in general and comparative parasitology and courses leading to the degrees of M.Sc., and Ph.D. (See Announcement of the Faculty of Graduate Studies and Research.)

DEPARTMENT OF PATHOLOGY

Strathcona Professor — G. C. McMILLAN (Chairman).

Associate Professors — W. H. Mathews, W. J. Pirozynski, H. Sheldon, F. W. Wiglesworth.

Assistant Professors — J. V. Frei, D. S. Kahn, G. Mathieson, M. A. Simon, W. M. Thurlbeck, B. I. Weigensberg.

Lecturers — J. Knaack, S. Moore, D. R. Murphy, G. Rona, Paula H. Schopflocher, H. C. Stary.

Demonstrators — Ilona Kerner, J. P. A. Latour, J. R. Stuart.

REQUIRED UNDERGRADUATE COURSES

- 1. Course in General Pathology (First year):
 - 100. Illustrated lectures during the Spring term totalling 36 hours.

Professor McMillan and Staff

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- 101. Practical laboratory classes during the Spring term totalling 72 hours.

 Professor Pirozynski and Demonstrators
- 2. Course in Special Pathology (Second year):
 - 200. Illustrated lectures throughout the Second year totalling 72 hours.

 Professor McMillan and Staff
- 201. Practical laboratory classes throughout the Second year totalling 72 hours.
 - 202. Group demonstrations throughout the Second year totalling 72 hours.
- 3. Course in Applied Pathology (Third and Fourth years):
- 300. Clinico-pathological Conferences alternate weeks throughout the Third year totalling 54 hours.

 Professor McMillan and Staff
- 400. Instruction in the performance of autopsies with demonstration of autopsy findings during the Fourth year.

Pathological Institute

Montreal General Hospital

Montreal Children's Hospital

Professor Thurlbeck Professor Mathews Professor Wiglesworth

GRADUATE COURSES

See Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF PHARMACOLOGY

Professor — K. I. MELVILLE (Chairman).

Associate Professor — B. G. BENFEY.

Assistant Professors - N. R. EADE, B. A. KOVACS, D. R. VARMA.

Lecturers — L. E. Francis, F. Herr, G. E. Joron, E. M. Kovacs, H. E. Shister.

The object of the course in Pharmacology is to elucidate, as far as knowledge permits, the action of drugs, and thereby lay a sound foundation for drug therapy.

1A. Pharmacology Lectures. The action of drugs, considered on information from experimental methods and clinical observation. Chemistry and metabolism (absorption, distribution and fate) of drugs studied are emphasized regarding underlying mechanism of action and therapeutic usage. Principles of action of various classes of drugs are covered so that the student may follow development of the subject intelligently.

Two lectures a week during the Autumn and Winter terms. Second year.

1B. Pharmacology Laboratory, Demonstrations and Conferences:

Demonstrations: In conjunction with laboratory work, demonstrations illustrating special aspects of the lectures are given during the year, either (a) in Departmental laboratories (replacing usual laboratory work) or (b) in conjunction with the Department of Medicine (Therapeutics) in the Teaching Hospitals, which will present clinical cases illustrating practical applications of drug usage.

Conferences: During the year four conferences of 45 minutes each and limited to six students, will be arranged. These conferences will replace the regular laboratory periods at the times specified.

2. Toxicology Lectures. A course of ten lectures devoted to the problems of acute poisoning (occurrence, symptoms, modifying factors, diagnosis and treatment), is given during the third term of the Second year.

Dr. G. E. Joron

ELECTIVES

Suitably prepared students may undertake special research or training projects under the direction of a staff member at any time, by application to the Chairman of the Department.

Advanced courses leading to the degrees of M.Sc. or Ph.D. will be arranged to suit individual cases. See Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF PHYSIOLOGY

Joseph Morley Drake Professor — F. C. MACINTOSH (Chairman).

Professor — B. D. BURNS.

Associate Professors — G. MELVILL JONES, KATHLEEN G. TERROUX.

Assistant Professors — R. I. Birks, J. Q. Bliss, Simon Dworkin, K. Martin, E. J. Reininger, Paul Sekelj, J. W. Trank.

Lecturers — R. P. GANNON, C. POLOSA, EDITH ROSENBERG.

REQUIRED COURSES

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Biochemistry—Physiology 1.

Monday to Saturday, at 9 a.m.

Biochemistry-Physiology 1D.

Demonstrations and tutorials: one hour a week.

Biochemistry-Physiology 1L.

Laboratory: six hours a week.

This is an integrated course of lectures, tutorials, demonstrations and laboratory work, given by the two departments.

Introduction to Medicine.

One hour a week, from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are conducted in turn by the Departments of Anatomy, Biochemistry, and Physiology.

SECOND YEAR

2. Anatomy and Physiology of the Central Nervous System.

Two hours lectures, two hours laboratory, and one hour demonstration a week, during the second term.

This is one course, given by the Departments of Anatomy, Neurology and Neurosurgery, and Physiology.

ELECTIVE COURSES

1E. Selected Topics in Physiology. These are discussed from the point of view of current research in the Department.

2 hours a week.

3E. Research in Biochemistry and Physiology. A limited number of students may take Biochemistry or Physiology as an elective subject in their Third year. These students will be given the opportunity of participating in departmental research projects.

OTHER COURSES

For other undergraduate courses in Faculty of Arts and Science, see Announcement of that Faculty.

For graduate courses, see Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF PSYCHIATRY

Professors — D. E. Cameron (Chairman), R. A. Cleghorn, A. E. Moll, E. D. Wittkower.

Associate Professors — B. M. Cormier, T. E. Dancey, N. B. Epstein, V. A. Kral, H. E. Lehmann, A. W. MacLeod, R. B. Malmo, H. B. M. Murphy, E. G. Poser, M. Saffran, T. L. Sourkes, T. Statten.

Assistant Professors — J. Aufreiter, J. Beaubien, Marion Birmingham, C. G. Bos, H. Caplan, H. B. Durost, P. G. Edgell, B. B. Grad, L. G. Hisey, B. R. Hunt, R. C. A. Hunter, H. Kravitz, A. M. Mann, M. S. Rabinovitch, C. A. Roberts, G. J. Sarwer-Foner, M. Straker.

Lecturers — G. Aufreiter, Fern Azima, S. Barza, C. H. Cahn, L. Dallaire, I. S. Disher, S. Z. Dudek, W. G. Krauser, Eva Lester, D. C. Levin, L. Levy, Z. J. Lipowski, F. W. Lundell, J. Mackay, L. Mergler, H. F. Muller, J. Naiman, D. Pivnicki, P. D. L. Roper, J. Sangowicz, A. E. Schwartzman, S. J. Shamsie, C. H. Skitch, C. C. Smith, L. Solyom, W. J. Stauble, S. L. Sved, G. C. Taylor, S. Wilner.

Sessional Lecturers - M. PRADOS, B. SILVERMAN.

Demonstrators — M. Amadeo, Helga Ast, H. A. Azim, T. A. Ban, C. Cahill, C. Cezayurli, J. Cumberland, H. Davanloo, R. L. DeVerteull, W. D. Engels, K. G. Ferguson, K. R. Ferguson, H. Fyfe, K. Goknar, H. Grauer, N. N. Greenberg, K. A. Handcock, G. Hanrahan, B. R. Harris, G. F. D. Heseltine, E. Kingstone, F. Kristof, J. L. Lapointe, M. Lemieux, A. Lepage, E. Levinson, Eva Libman, J. G. Lohrenz, A. S. MacPherson, A. F. Mezaros, D. K. Mills, Y. Nerman, G. C. Patton, V. Rakoff, A. Russell, J. F. Saucier, R. M. Smith, B. Trossman, G. Turcot, J. R. Unwin, B. Wainrib, H. Warnes, W. W. Waters, G. Weiss, J. S. Werry.

REQUIRED UNDERGRADUATE COURSES

FIRST YEAR

Growth, Development and Human Relationships: A total of 16 hours, the first two being introductory lectures in psychobiology. The remaining hours of the course will include technique of child examination, diagnosis of child psychiatric states, child psychiatric problems as seen in various treatment facilities, including paediatrics outpatient clinic.

Professors Cameron, Statten, Ross (Paediatrics) and Staffs

SECOND YEAR

Two courses of lectures: (a) 12 1-hour lectures on psychopathology; (b) 12 2-hour sessions on psychiatric case studies, with case presentation.

Professors Roberts, Lehmann and Staff

THIRD YEAR

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Six weeks block teaching to acquaint students with the examination of patients and understanding of some of the major factors involved in abnormal behaviour. Diagnostic procedures, psychotherapeutic and physical methods of treatment, will be among the aspects covered. Students will be provided with tutors on a group basis and will also have more specialized training in the areas of child psychiatry, community psychiatry and mental disorders.

Professors Cameron, Moll, Dancey, Roberts, Statten, Silverman and Staffs

FOURTH YEAR

The teaching in this year will be largely focused on clerkship. Students will attend tutorials, ward rounds, seminars, conferences, etc., at the Allan Memorial Institute, Montreal General Hospital and Queen Mary Veterans' Hospital.

Professors Cameron, Moll, Dancey and Staffs

GRADUATE COURSES

DIPLOMA IN PSYCHIATRY (Dip. Psychiat.)

Minimum prerequisites for entry to the Diploma Course in Psychiatry are a degree from an approved Medical College or School and one year's rotating interneship in an approved hospital.

Applications for admission should be addressed to the Chairman, Department of Psychiatry, McGill University.

The course is of four years' duration. Credit, not amounting to more than two years, may be given for study completed at other centres prior to enrolment at McGill University. In all instances, to qualify for the Diploma, the student must spend at least two years of graduate study in the Department of Psychiatry of McGill University in Montreal.

The Diploma Course is organized to provide a comprehensive training for those (a) preparing themselves for a career in the field of general psychiatry, and (b) who wish to proceed to specialized preparation for such fields as child psychiatry, community psychiatry, university teaching and research, or general hospital psychiatry with special emphasis upon psychosomatic work.

The first two years are devoted to establishing a fundamental knowledge of clinical conditions and of general therapeutic procedures. Special emphasis is laid upon psychopathology, psychodynamics and psychotherapy, and upon gaining experience in the full range of diagnostic and therapeutic procedures now in common use in psychiatry.

The last two years of the course provide considerable choice in courses and in training locations to meet the needs of those who wish special advanced experience in psychosomatic work, child psychiatry, general psychotherapy, research and other of the special areas referred to above.

Increasing emphasis is now being placed upon the desirability of spending a year in research work. This year may be spent either in the laboratories of the Allan Memorial Institute in the research divisions, as a member of a field group, or on one of the clinical investigative teams at work in the various clinical teaching hospitals of McGill University.

Theoretic instruction and practical experience are closely and continuously integrated, and the student is expected not only to participate in, but, also, in the more advanced years, to learn to use the major teaching procedures: small group discussions, seminars, didactic lectures, case conferences, journal clubs, recorded interviews, as well as the one-way screen, movies and television.

Extensive use is made of the tutorial method of teaching, particularly in connection with psychotherapy. In each of the four years students are assigned to a

tutor who is a member of the attending staff.

In addition to the training areas within the Department of Psychiatry, post-graduate students who have completed not less than two years' training may be assigned to the research teams and groups established in connection with the other clinical centres, where they work under the direction of a senior member of the research staff. Moreover, arrangements are possible with other departments within the University for periods of special study: for instance, with the Montreal Neurological Institute for special instruction and experience in neurology, or with the University Clinic of the Department of Internal Medicine for special advanced work in the psychosomatic field. At least six months' work in a mental hospital will be required.

Students are expected to have sufficient knowledge of English to participate adequately in seminar instruction and to benefit from their clinical experience.

Before receiving the Diploma the candidate must pass an examination during

the Second year and again at the end of the Fourth year.

Further information may be obtained by writing the Chairman, Department of Psychiatry, McGill University.

COURSES FOR THE DEGREE OF MASTER IN SCIENCE IN PSYCHIATRY

See Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF RADIOLOGY

Professors — Carleton B. Peirce (Chairman), J. J. L. Bouchard.

Associate Professors — J. S. Dunbar, R. G. Fraser, D. L. McRae, D. J. Sieniewicz.

Associate Professor of Physics: L. G. Stephens-Newsham.

Assistant Professors — B. B. Hale, M. N. LOUGHEED. D. W. MACEWEN.

Lecturers — H. Blondal, N. M. Brown, F. A. Grainger, F. McConnell, G. B. Skinner.

Lecturer in Physics — R. A. BEIQUE.

Demonstrators — D. Berger, B. St. J. Brown, R. Ethier, J. Gibson, J. J. Hazel, J. A. Liver, F. R. MacDonald, L. Rosenthal, R. E. Wilson. Demonstrator in Physics — H. H. Zwick.

UNDERGRADUATE COURSES

FIRST YEAR

Normal Roentgen Anatomy with special attention to functional changes in the skeletal and the several visceral systems.

In co-operation with the Department of Anatomy Professor Peirce and Staff

SECOND YEAR

Introduction to Radiology including the basic principles and application of radiation physics, radiation biology and physiology in diagnosis and therapy by means of ionizing radiations.

Professor McRae

THIRD YEAR

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- (a) Clinical Radiology—a systematic exploration of radiologic evidence of disease and the therapeutic applications of ionizing radiations; weekly conferences while the students are attending Internal Medicine and Surgery in the teaching hospitals.

 Professors Peirce, Bouchard, Sieniewicz, Fraser and Staff
- (b) Elective: A tutorial period, with opportunity for the student to explore the radiological features of some special disease, entity or syndrome in one of the teaching hospitals.

 Professors Peirce, Sieniewicz and Staff

FOURTH YEAR

Clinical Radiology continued in the programme initiated in the Third year while attending Internal Medicine and Surgery with the addition of Paediatrics.

Professors Peirce, Bouchard, Sieniewicz and Dunbar and Staff

GRADUATE COURSES

(a) DIPLOMA IN RADIOLOGY (Dip. Radiol.)

Minimum prerequisites: Degree from an approved Medical Faculty, College or School; one year of general rotating interneship; appointment on the Resident Staff in Radiology of one of the teaching hospitals for this Faculty.

Required Studies: Four years of postgraduate study in Diagnostic and/or Therapeutic Radiology including Radiation Physics, Radiobiology and Pathology in the University and its teaching hospitals.

Advanced credit may be allowed by the Departmental Committee for graduate study in Radiology and/or cognate fields (Internal Medicine, Clinical Surgery or the basic Sciences) in approved institutions or teaching hospitals elsewhere, but not in excess of two of the required four years. Studies pursued in the basic sciences should be of a quality acceptable in partial fulfilment of the requirements for the degree of Master of Science.

In addition to a thorough grounding in general medical radiology, in so far as practicable arrangements may be made for the candidate to pursue studies in the special fields pertinent to his chosen division, such as the diagnostic radiologic interest in neurologic and paediatric diseases or the diagnostic and therapeutic interests of nuclear medicine in the therapeutic division.

Preparation of a scientific paper, under supervision of his tutor or as co-author, will be expected of each candidate.

Both written and oral final examinations are required.

The didactic programme of the Diploma Course and the associated clinical studies are fully accepted à propos the specialist certification by the several qualifying bodies.

Further information may be obtained from the Chairman, Department of Radiology, McGill University.

(b) MASTER OF SCIENCE (M.Sc.)

For information relative to the Master of Science degree, see Announcement of the Faculty of Graduate Studies and Research or enquire of the Chairman of the Department.

DEPARTMENT OF SURGERY

- Professors Fraser N. Gurd (Chairman), Lloyd D. MacLean, David R. Murphy, H. Rocke Robertson.
- Associate Professors H. A. Baxter, S. G. Baxter, J. W. Gerrie, J. C. Luke, S. J. Martin, H. S. Morton, H. F. Moseley, H. J. Scott, A. G. Thompson, A. M. Vineberg, F. M. Woolhouse.
- Assistant Professors W. M. Couper, A. R. C. Dobell, J. A. Drummond, M. A. Entin, J. R. Gutelius, R. C. Long, D. D. Munro, H. F. Owen, J. D. Palmer, E. J. Tabah.
- Lecturers A. R. Bazin, H. E. Beardmore, J. C. Dickison, R. L. Estrada, L. G. Hampson, I. W. D. Henderson, J. F. Hopkirk, A. F. Jones, G. M. Karn, R. N. Lawson, D. W. Ruddick, I. Shragovitch.
- Demonstrators N. J. Belliveau, A. N. Freedman, F. G. Inglis, G. W. Lehman, D. T. Lin, J. R. Moore, W. L. Ogilvy, H. B. Williams, G. K. Wlodek, E. W. Workman.

EXPERIMENTAL SURGERY

Professor - DONALD R. WEBSTER.

Associate Professor — S. C. SKORYNA.

Assistant Professors — G. Bounous, Edith Rosenberg, J. W. Trank.

N.B. See Announcement of the Faculty of Graduate Studies and Research.

ORTHOPAEDIC SURGERY

Associate Professors — J. G. Petrie, J. G. Shannon.

Assistant Professors — J. M. McIntyre, J. A. L. Walker.

Lecturers — A. A. Butler, R. L. Cruess, E. C. Percy, J. L. Shugar, R. G. Townsend, C. L. Wilson.

Demonstrators — I. S. BITENC, H. F. FARFAN, F. A. H. GREENWOOD, W. E. WILSON.

UROLOGY

Associate Professors — K. G. MACKINNON, R. G. REID.

Assistant Professors — S. A. MACDONALD, J. T. MACLEAN.

Lecturer — C. A. MOORE.

Demonstrators — I. J. DE DOMENICO, N. HALPERN, W. F. LINGARD, T. NEARING, J. A. OLIVER, J. SUSSET.

REQUIRED UNDERGRADUATE COURSES

SECOND YEAR

Surgical teaching begins in the Spring term (12 weeks) of the Second year. In this year special attention is directed to the instruction and training of the student in proper methods of physical examination from the surgical point of view.

- 2A. A Course of Lectures (12) is given covering the basic principles of Surgery.
- 2B. Group Classes in the wards of the Montreal General and Royal Victoria and Queen Mary Veterans' Hospitals. At these, small groups of students are instructed in methods of examination as applied to surgery and its allied specialties.

THIRD YEAR

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The student comes into a more intimate contact with the patients, and in the surgical term of eight weeks is assigned cases, writes case reports, acts as dresser, and assists at operations. His clinical work is confined to one hospital — either the Montreal General Hospital or the Royal Victoria Hospital.

- 3A. Discussions concerning material covered in an assigned reading course will be held in the Montreal General and the Royal Victoria Hospitals one day each week.
- 3B. Group Ward Classes in the Montreal General and the Royal Victoria Hospitals, five times a week during the term.
- 3C. Case Reporting. Patients are allotted to students who act as reporters, dressers, and assistants at operations.

FOURTH YEAR

In the Final year the student spends eight weeks attached to the surgical service of a hospital. During four of these weeks the student is required to live in the hospital.

SURGICAL DISEASES OF CHILDREN

Some instruction in the surgical diseases of children is given during the trimester in which the students are assigned to paediatrics at the Montreal Children's Hospital as follows:

4A. Group Ward Classes three times a week throughout the trimester.

In their Final year students attend either the Shriners Hospital or the Montreal Children's Hospital for further instruction in paediatric surgery.

ORTHOPAEDIC SURGERY

Some lectures covering the basic principles of orthopaedic surgery are given in the Second year and members of the Orthopaedic Staffs of the Montreal General Hospital and Royal Victoria Hospital participate in the Second and Third year bedside clinics.

In the Final year seminars are conducted by members of the Orthopaedic Staff.

UROLOGY

In the Final year students are assigned to the Urological Services of the Montreal General Hospital and Royal Victoria Hospital for one week and, in addition to this, ward classes are held three times a week in each hospital.

GRADUATE COURSES

DIPLOMA IN UROLOGY (Dip. Urol.)

Minimum prerequisites for entry to the Diploma Course in Urology are a degree from an approved Medical College or School, one year's rotating interneship

in an approved hospital, and two years of training in general surgery or divided between general surgery and pathology or some other basic science.

Applications for admission should be addressed to the Chairman, Department of Surgery, McGill University.

The course is of three years' duration. The three years are spent as a member of the resident staff in the Department of Urology of the McGill University Teaching Hospitals. Throughout the three-year period, during the academic sessions, lectures or seminars are held one night each week. Through the co-operation of the Department of Medicine each candidate spends four months in the Renal Laboratory.

No examination is held. The Diploma is recommended on the satisfactory completion of the three year training programme.

For other graduate courses in Surgery, see Announcement of the Faculty of Graduate Studies and Research.

BUILDINGS

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THE MEDICAL BUILDING

This building contains the Offices of Administration, the Medical Library, the Department of Anatomy, and the Department of Investigative Medicine. The Faculty of Dentistry is also in this Building.

THE BIOLOGICAL BUILDING

Completed in 1922, this building was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. It houses laboratories devoted to Botany, Zoology, Genetics, Biochemistry, Physiology, and Pharmacology.

Each of these departments is provided with laboratories and units for undergraduate teaching and graduate research.

THE PATHOLOGICAL INSTITUTE

This building was opened for use in October, 1924. It is situated on the northeast corner of University Street and Pine Avenue adjacent to the Medical Building, the Montreal Neurological Institute and the Royal Victoria Hospital. It accommodates the Departments of Bacteriology and Pathology and contains a pathological Museum and two departmental Libraries. There are extensive facilities for undergraduate teaching, postgraduate training and research, and for pathological, anatomical and microbiological diagnosis.

THE MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. The construction of the McConnell Wing, opened in 1953, approximately doubled both the clinical and laboratory space. Unsurpassed in its equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neurosurgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine and the Montreal Neurological Hospital for the care of patients with organic diseases of the nervous system. In addition to wards, operating rooms, and laboratories for treatment and study of diseases of the nervous system, the building provides facilities for graduate study and research in the related fields of basic science.

THE ALLAN MEMORIAL INSTITUTE

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building was reconstructed to permit of the establishment of a fifty-bed unit, together with extensive research laboratories, and was officially opened July 12, 1944.

In 1946 the first day hospital in the world was opened at the Institute and in 1953 a fifty-bed wing was added.

In 1963 a research and training building was added by McGill University thus providing one of the most extensive and modern research areas.

Both undergraduate and postgraduate teaching are carried on at the Institute.

THE DONNER BUILDING

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The Donner Building for Medical Research, adjacent to the Medical Building, was completed in September 1948. Its erection was made possible through the generosity of William H. Donner of Philadelphia, the late founder of the International Cancer Research Foundation, who provided the funds necessary for the construction of a building entirely devoted to medical research.

This building houses the Maxwell Lauterman Laboratories for Experimental Surgery and laboratories for Dentistry and Experimental Psychology.

HOSPITALS

Few medical schools on this continent offer better facilities than those enjoyed by the students of McGill University. Ideal academic and topographical conditions exist for the teaching of scientific and practical medicine.

The Medical Faculty is on the University Campus, and is thus in juxtaposition to the scientific laboratories of the University and to the largest teaching hospital in the city. Co-operation with the scientific and cultural departments of the University, as well as with clinical facilities, is thereby made easy.

The following hospitals and institutions are at the disposal of the teaching staff and students for clinical and pathological study:

Royal Victoria Hospital
Montreal General Hospital
Montreal Children's Hospital
Queen Mary Veterans' Hospital
Alexandra Hospital for Infectious Diseases
Verdun Protestant Hospital
Royal Edward Laurentian Hospital
Royal Victoria Montreal Maternity Hospital
Montreal Neurological Hospital

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical Faculty. These affiliated hospitals contain over 6,000 beds.

The Royal Victoria Hospital, in juxtaposition to the University buildings, comprises the following units under one administration:

- 1. The Main Building;
- 2. The New Medical Wing;
- 3. The New Surgical Wing;

- 4. The Ross Memorial Pavilion for private patients;
- 5. The Women's Pavilion Royal Victoria-Montreal Maternity;
- 6. The Allan Memorial Institute.

The total bed complement is 1,018, with 115 bassinets. Admissions total over 23,000 and confinements are in excess of 3,800 a year. There are more than 100,000 visits annually to the Outpatient Department. The University Clinic was established in 1924 and has facilities for both clinical laboratory work and research.

Post-mortems total 60 per cent of the deaths.

The number of resident physicians is 162.

The Montreal Neurological Hospital, consisting of the hospital activities of the Montreal Neurological Institute, is situated across the street from the Royal Victoria Hospital and constitutes the Department of Neurology and Neurosurgery for this hospital. There are 136 beds, including a paediatric unit, for the care and investigation of patients with organic diseases of the nervous system. There are approximately 2500 admissions yearly, about half to the Neurological Services and half to the Neurosurgical Services. Approximately 1100 surgical procedures are carried out each year.

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The Royal Victoria-Montreal Maternity Pavilion, with 197 beds for obstetrical and gynaecological cases. In this institution there are 117 teaching beds and an organized outpatient service which is of the greatest benefit to the undergraduate student. In a typical year, the obstetrical service cares for over 3,800 confinements in the Hospital. In the gynaecological section, over 2,800 cases are admitted during the year.

There are 22 resident physicians.

The Montreal General Hospital has a bed complement of 750 for the treatment of acute diseases. In a typical year, there are approximately 18,000 admissions and 150,000 consultations in the Outpatient Department. The resident and interne staff numbers 130.

The "Montreal General" was founded in 1821; two smaller buildings downtown had preceded it in 1816 and 1819. In age, therefore, it is not the oldest hospital in Canada, but its record in clinical teaching is one of the longest on the North American continent.

From the time the Hospital was opened, its staff began to arrange for students and, in 1823, they opened the first Medical School in Canada, the Montreal Medical Institution, with 25 students. Teaching was carried on partly at the Hospital. It was this School which agreed to form the Medical Faculty of McGill University in 1829; the beginning of a long and intimate association between the Hospital and the University.

The present buildings on Cedar Avenue were occupied in 1955.

The Montreal Children's Hospital has 354 beds (65% public beds), and, in a typical year, admits 12,000 patients. The attendance at its outdoor department totals over 125,000 clinic visits. This hospital admits all classes of cases of disease in children except pulmonary tuberculosis and the communicable diseases, and enables students to get a broad concept of paediatrics.

There are 236 autopsies in a typical year, representing 90.1% of all deaths. The number of resident physicians is 100.

Queen Mary Veterans' Hospital has 700 active treatment beds and 1,200 beds at Ste. Anne's Hospital, Ste. Anne de Bellevue for rehabilitation, geriatrics and psychiatry.

The hospital was taken over by the Department of Veterans Affairs in August 1946, with affiliations of consulting, attending and resident staff which were set up in collaboration with the Medical Schools of McGill University and l'Université de Montréal.

Admissions are over 7,500 a year and include not only veterans, but serving members of National Defence, Merchant Navy, Immigration, R.C.M.P., personnel returning from the Tropics, and, groups from other Government Departments.

The outpatient attendance is approximately 100,000 annually and the postmortem rate is about 85%.

Active treatment and research are maintained in all the usual fields and, in addition there are special departments: Paraplegics, Plastic Reconstruction and Prosthetics (construction, alterations and fitting of artificial limbs).

The resident physician appointments number 74 and 6 of these rotate through Ste. Anne's Hospital.

All specialties, except Obstetrics and Paediatrics, are covered.

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The Alexandra Hospital for Infectious Diseases, opened in 1906, with modern wards, cubicles and equipment is regularly attended by students who receive demonstrations on the essential features of all the common acute infectious diseases and tuberculosis.

There are three wards for the treatment of tuberculosis in children and tuberculous meningitis in adults and children. There are 150 beds (including 50 for tuberculosis) and the average yearly admissions range between 800 and 1,000.

There is a resident senior physician and two junior rotating physicians.

The Verdun Protestant Hospital was opened in 1890. It is a psychiatric hospital for the treatment of emotional and mental diseases and with its 1,850 beds serves mainly the English-speaking communities of the Province of Quebec. There are also facilities for adolescent behaviour problems and the mentally retarded.

The hospital is directed by a private Board of Governors but admits non-paying patients on the basis of a contract with the Provincial Government. There are approximately 1,600 admissions per year and in the After Care Clinic about 2,000 patients are seen during the year.

The medical staff consists of 23 psychiatrists, 3 physicians and 21 psychiatric residents who are registered with the McGill Diploma Course in post-graduate psychiatry; some 20 consultants in the various medical specialties also visit the hospital regularly.

Third year undergraduate medical students of McGill University spend three weeks on the wards of the hospital as part of their psychiatric teaching. The hospital provides clinical instruction and training of nurses, nursing assistants, occupational therapists, psychologists and social workers, and field work experience for post-graduate training of professional personnel. An active research programme is carried on in the basic and clinical aspects of human behaviour.

The Royal Edward Laurentian Hospital has as objectives the study, prevention and treatment of tuberculosis and diseases of the chest. It includes two Divisions—one in Montreal, near the University, and the other in Ste. Agathe in the Laurentian Mountains.

The Montreal Division consists of an out-patient department and in-patient treatment units. The out-patient department includes an anti-tuberculosis dispensary and a chest clinic. The hospital contains a 24-bed tuberculosis unit and a 100-bed

non-tuberculous chest condition unit. This Division's facilities include operating rooms and laboratories. It maintains an active research programme. Residency appointments number 10.

The Laurentian Division is a sanatorium. It has 144 beds, all of which are for persons with pulmonary tuberculosis. Residency appointments number 2.

THE MEDICAL LIBRARY

Medical Librarian — RODOLPHE C. LAVERGNE.

The Library is now of nearly 0,000 bound volumes.

The Reading Room is on the fourth floor of the building with a small periodical room adjacent. The third floor contains the stacks for bound journals and has three study rooms for use of members of the teaching staff. The second floor is devoted to administration and technical operations.

The chief value of the Library is in its periodical collection. About 2,000 journals are received currently in almost all languages. The book collection is especially noteworthy in the ophthalmological section due in large measure to many gifts from the late Dr. Casey A. Wood.

The Library is for members of the teaching staff and students of the Faculty and of the whole University, and for research workers and doctors in the city. An extensive interlibrary loan service throughout the country is maintained.

The Library is open during the academic session from Monday to Friday, 9 a.m. to 10 p.m. September to March; 9 a.m. to 11 p.m. April to mid-June; Saturday 9 a.m. to 5 p.m. After June 15 the hours are 9 a.m. to 5 p.m. Monday to Friday, closed Saturday.

There are also small libraries and collections of books and journals located in several Departments of the Faculty.

THE OSLER LIBRARY

This special library of the history of medicine and science, collected by Sir William Osler with a view to its educational value, was bequeathed by him to his Alma Mater. The Osler Library, which comprises nearly 12,500 volumes, occupies a large room, beautifully equipped, on the fourth floor, convenient to the Medical Library. The collection is rich in early editions of the older literature, as well as in modern historical works, and its importance and usefulness are much enhanced by the donor's annotated catalogue. Planned and prepared by Osler along very unusual lines, the catalogue was completed, indexed, and printed after his death (Bibliotheca Osleriana, Clarendon Press, Oxford, 1929, xxxvi, 785 pp.).

The books are classified in eight sections, of which the first, the "Bibliotheca Prima," presents a bibliographical outline of the evolution of science (including medicine), and was planned to contain the essential literature arranged chronologically under the names of the greatest contributors to the advancement of knowledge. Another feature of the Library is its Incunabula, a valuable collection of 150 books printed in the fifteenth century. Recently the Wellcome Trust has given generous annual grants for the purchase of expensive books to fill gaps in the Osler collection.

The Osler Library is open daily, except Sunday, for the use of undergraduates and all who are interested. The Librarian will be glad to give advice or informal instruction to students. Accommodation is provided for readers. The books belonging to the original collection may not be borrowed or removed from the Library, but this restriction does not apply to the current works on the history and biography of medicine and science which are constantly being added.

MEDICAL SOCIETIES

McGILL MEDICAL UNDERGRADUATE SOCIETY

The Society is composed of the registered students of the faculty. Its purpose is:

- (1) To transact all matters of business connected with the undergraduate body;
- (2) To stimulate interest along medical lines;
- (3) To assist students to express themselves in public with facility;
- (4) To provide an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.
- (5) To organize, during the course of the school year certain outside activities such as the annual Medical Banquet and Ball.

Monthly meetings are held at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter, and three Councillors (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

The society also maintains the Students' Reading Room. English and American journals, as well as the leading daily newspapers are kept on file.

ALPHA OMEGA ALPHA HONOUR MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate, and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the Third and Fourth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

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The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes men from each class in the faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.

 Faculty of Medicine

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McGill University FACULTY OF MEDICINE

ADMINISTRATIVE OFFICERS

H	**ROCKE ROBERTSON, B.Sc., M.D.,C.M., D.C.L. (Bishop's), LL.D. (Man., Tor. & Vict.), D.Sc. (U.B.C.), F.R.C.S. (Edin.), F.R.C.S.(C), F.A.C.S.
	Principal and Vice-Chancellor

H. N. FIELDHOUSE, B.A. (Oxon.), M.A. (Sheff.), F.R.S.C., F.I.A.L.	
Vice-Principal	(Academic

RONALD V. CHRISTIE, M.D., Ch.B. (Ed. F.R.C.P., F.A.C.P., F.R.C.P.(C)	, dili.),	D.Sc.	(Lond.),	SC.D.	Dean
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EDWARD H. BENSLEY, M.B.E., B.A., M.D. (Tor.), I F.C.I.C., F.A.C.P.	O.Sc. (Acad.), F.R.C.P.(C), Vice Dean of the Faculty
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S. M. BANFILL, M.B.E., B.A., M.D., C.M.	Associate Dean (Admissions)
DAVID V DATES AND (C 1) AND CD (I	AN ADDRESS TO MOUNTAIN

DAVID V. BATES, M.D. (Cantab.)), M.R.C.P. (Lond.)
	Associate Dean (Graduate Studies and Research)
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G. E. JORON, B.A., M.D., C.M., F.A.C.P., Dip. (Int. Med.)

	Assistant Dean (Professional Relations)		
JOHN G. HAMPSON, B.Com., C.A.	Executive Secretary of the Faculty		
C A CRIMCON D.C-	T		

G. A. GRIMSON, B.Com.	Executive Assistant to the Principal
J. H. HOLTON, B.Com. (Tor.)	Secretary of the Board of Governors

ALLAN C. McCOLL, D.F.C., B.Com., C.A.

Comptroller

COLIN M. McDOUGALL, D.S.O., B.A.

Registrar

TUTORS 1964-65

Drs. M. Aronovitch, C. M. Ballem, D. V. Bates, J. E. Blundell, H. F. Brickman, B. St. J. Brown, A. R. C. Dobell, J. S. Dunbar, S. O. Freedman, P. Gloor, I. W. D. Henderson, E. S. Hillman, R. Hobkirk, C. H. Hollenberg, N. Kalant, A. Knight, G. G. Kalz, D. W. MacEwan, D. J. MacIntosh, L. D. MacLean, H. F. Owen, J. A. P. Paré, B. J. F. Perey, J. P. Robb, A. S. Ross, C. R. Scriver, H. J. Scott, T. L. Sourkes, J. G. Stratford, L. S. Wolfe.

Special Announcements are available for the School of Physical and Occupational Therapy, and the School for Graduate Nurses.

Details of Scholarships, Bursaries, Prizes, Medals, and Loan Funds are given in the Scholarships Announcement, which may be obtained from the Registrar's Office.

FACULTY OF MEDICINE

The one hundred and thirty-third session of the Faculty will open on September 8, 1965 for students of all years.

Students may enter the Faculty of Medicine in one of two ways. A limited number will be admitted from high school to the Double Course in Science and Medicine. Most will be admitted from college to the four-year medical course.

A. DOUBLE COURSE IN SCIENCE AND MEDICINE

REQUIREMENTS FOR ENTRANCE

Students of high calibre and first-rate academic attainment will be admitted to the First year of this programme after successfully completing Junior Matriculation. They will be enrolled directly in the Faculty of Medicine and at the same time in the Faculty of Arts and Science. In exceptional circumstances students will be admitted to the Second year of the seven-year course when they have obtained high standing in Senior Matriculation. A joint committee of the two Faculties concerned will select the successful candidates.

DESCRIPTION OF COURSE

Duration: Seven years from Junior Matriculation, six years from Senior Matriculation.

Degrees: B.Sc. (after 5 years), M.D., C.M. (after 7 years).

First year: Chemistry, Physics, Mathematics, Biology and two electives.

Second year: Organic Chemistry and five electives.

Third year: Anatomy (not including Head and Neck) and three electives. Fourth year: First year Medicine (omitting Anatomy) and two electives.

Fifth, Sixth and Seventh years: Last three years of standard medical curriculum.

One course in English, not necessarily a First year course, will be required at some time during the first four years.

Elective courses must be selected so as to meet the requirements for the degree of B.Sc.

APPLICATION FOR ADMISSION

Application should be made by March 1, 1966 to the Director of Admissions of McGill University, Montreal 2, Canada. Application forms may be obtained from the Registrar's Office or the Admissions Office.

B. FOUR-YEAR COURSE IN MEDICINE

REQUIREMENTS FOR ENTRANCE

 (a) Total Academic Credits: The minimum requirement for admission to the medical course is the satisfactory completion of three full years of study in a recognized college or Faculty of Arts and Science in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. Preference is given to those who have completed the work leading to a B.A. or B.Sc. degree. (b) Scientific Requirements: In the scientific branches, certain subjects are specifically required:

Chemistry, two full courses, including General Chemistry and Organic Chemistry, with laboratory work.

Physics, one year with laboratory work.

Biology, or Zoology, one year with laboratory work. (Of this, a half year must consist of Zoology.)

(c) Cultural Requirements: These must be selected in such a way as to be in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. These would commonly include credits in English Literature and Composition and in Mathematics. It is advisable for each applicant to present evidence of such preparation.

(d) All candidates for admission to the Medical Faculty are required to take the Medical College Admission Test conducted by the Psychological Corporation (304 East 45th Street, New York 17, N.Y.) or furnish an explanation of why they are unable to do so. This test should be taken not later than the spring of the Third year of the college course.

2. In selecting courses, in addition to the specific requirements listed above, the intending medical student should plan his pre-medical course as a whole, and in accordance with a definite educational objective. Emphasis should be laid on the broad educational value and the intellectual training afforded, rather than on the factual content of such pre-medical curricula; the student is therefore advised to plan his course in such a way as to provide more than elementary training in some definite field of learning which appeals to him; this major field may be selected from the Natural or the Social Sciences or the Humanities. Certain subjects which though not essential have been found valuable in medical study, and which may be included as electives if the curriculum in the major field permits, are Psychology, Sociology, and Genetics.

In general, students are advised not to anticipate medical school courses in Physiology, Histology, Bacteriology, and Biochemistry at the expense of a fundamental training as outlined above.

On the other hand, for students who desire a preparation in excess of the minimum requirements, a considerable degree of specialization in the sciences, such as Honours graduation, or a Master's degree, in Physics, Chemistry, Biochemistry, Biology, Physiology, or Bacteriology, may prove to be desirable and advantageous.

The students' attention is called to the memorandum printed in the Announcement of the Faculty of Arts and Science, for the guidance of students who wish to enter Medicine.

Candidates for admission shall furnish evidence that they have satisfied the matriculation requirements of the Licensing Body in the region where they wish to practise. This provision applies to Canadian candidates only.

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A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official Statement of his preliminary education and of the medical course he has followed and the standing he has obtained. This should be accompanied by a calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

The equivalent courses of study in schools accepted by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the accepted school, but the

student may be required to pass such examinations, individual or comprehensive, as may be required by the Faculty.

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Associate Dean (Admissions) of the Faculty or the Registrar's Office.

As the number of students in each class is limited, application should be made early and in any case not later than January 1. Each application must be accompanied by a non-returnable fee of \$5.00 in the form of a cheque or money order payable to McGill University.

A fee of \$50.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Associate Dean (Admissions) when possible, is advisable.

REGISTRATION

Students in the Faculty of Medicine will register at the Registrar's Office in Dawson Hall on Friday, September 3 or Tuesday, September 7, 1965. Those who register late will be required to pay a late registration fee of \$5.00 if they register during the first week of the session and \$10.00 if they register during the second. The fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

FEES

The University reserves the right to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions described in the General Announcement.

It is probable that tuition fees for the 1965-66 session will be increased by about \$100.00.

IINIVERSITY FEES

UNI	VERSITY FEES	
1.	Double Course in Science and Medicine First and Second Years Third to Sixth Years Seventh Year	
2.	Four-Year Course in Medicine First to Third Years Fourth Year	710.00 715.00
3.	REPEATING STUDENTS Students repeating a year pay full fees.	
4.	AD EUNDEM FEE Students entering any year above the First, pay a special ad eundem fee of	\$10.00

GENERAL REGULATIONS

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- Students entering the University for the first time are required to pay their fees either by mail or in person at the Accounting Office.
 - The first instalment is due within 10 days after registration, the second instalment before January 17, 1966. No invoice will be sent.
 - A late payment fee of \$5.00 is charged for payment after the specified dates.
- 2. Students who have completed one or more years and intend to register in the succeeding year must pay one half of the total sessional fee by mail or in person to the Accounting Office before September 1, 1965, otherwise they will not be permitted to register. Instructions for paying fees in advance will be mailed to all upper year students, either with their Reports of Sessional Standing or a short time later. Students who have been notified by the University of the award of a scholarship, bursary or student loan, and who require this for payment of the first instalment of fees, must obtain from the Student Aid Office, McGill University, a Permit to Delay Payment of Fees.
 - The second instalment is due January 17, 1966. A late payment fee of \$5.00 is charged for payment after the specified dates. No invoice will be sent.
- 3. Students registering late must pay their fees at the time of registration, failing which they become subject to the late payment fee and the provisions of the following paragraph:
 - As soon as possible after the prescribed dates for the payment of fees the Chief Accountant will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.
 - All fees are payable in Canadian Currency.
 - For further information and for a list of special fees see the General Announcement.

MICROSCOPES

Each student on beginning his studies is required to provide himself with a first-class microscope for laboratory and private study throughout his course. The Medical Faculty has examined a large number of student monocular microscopes of good quality and has selected a model which it feels best suited to student requirements.

This microscope can be purchased from the McGill Book Store at very substantial saving made possible by large scale ordering. It is recommended that students, regardless of their country of origin, avail themselves of this opportunity to purchase a first-class microscope at greatly reduced cost.

The University does not rent microscopes to medical students.

BOARD AND RESIDENCE

For details of board and residence and an estimate of expenses, see the General Announcement.

HEALTH SERVICE

For details of the Health Service and Medical Examinations see the Students' Information Pamphlet.

COURSES FOR THE DEGREE OF M.D., C.M.

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The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including

(a) four years of medical study in the University leading to the degree of M.D., C.M.; and

(b) one year of interneship in an approved hospital.

While the Faculty Administration exercises a general supervision of arrangements for interneships, the Faculty of Medicine assumes no responsibility to provide an interneship for any student.

A certificate that his medical education is completed and that he is eligible to sit for the examination of a licensing board shall not be issued to any graduate until the University is in possession of satisfactory evidence that he has completed the full requirements.

The sessions usually begin the first Wednesday after the first Monday in September (Labour Day). In the first three years, the session continues until the middle of June, but the final year is completed in time for the degree of M.D., C.M. to be awarded at the regular University Convocation at the end of May.

The arrangement of the principal subjects of instruction is usually as follows:

Anatomy (including Embryology), Histology, Physiology, Biochemistry, Child Development and Human Relations, Introduction to Medicine, General Pathology, History of Medicine.

SECOND SESSION

Central Nervous System (Anatomy, Neuroanatomy, Neurophysiology, Psychology), Medical Microbiology, Laboratory Diagnosis, Medicine, Surgery, Obstetrics, Epidemiology and Health, Pharmacology, Psychiatry, Special Pathology, Radiology, History of Medicine.

THIRD SESSION

Epidemiology and Health, Medicine, Surgery, Obstetrics and Gynaecology, Medical Jurisprudence, Neurology and Neurosurgery, Paediatrics, Psychiatry, Ophthalmology, Oto-laryngology, Radiology, Anaesthesia, Electives.

FOURTH SESSION

Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Paediatrics, Ophthalmology, Oto-laryngology, Radiology, Therapeutics.

EXAMINATIONS

The examinations taken within the Medical Faculty are divided into two groups, namely major examinations and minor examinations. Major examinations are the final examinations in Anatomy (Embryology), Histology, Physiology, Biochemistry, Pharmacology, Medical Microbiology, Special Pathology, Epidemiology and Health (Third year), Paediatrics, Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Central Nervous System.

The examinations in Medicine, Surgery, Obstetrics and Gynaecology, and Psychiatry at the conclusion of the Third Session are ranked as major examinations, even though they are not the final examinations in these subjects.

Minor examinations include the final examinations in General Pathology, Laboratory Diagnosis and examinations preliminary to the final major examinations. A student who fails in any major examination will be required, before he sits a supplemental examination, to present to the Dean's office from the senior professor of the Department concerned a certificate that the student has taken sufficient extra tuition as would indicate that he has reviewed the subject and is a suitable candidate for the supplemental examination.

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There is a strict difference between the importance of a major and a minor examination. If a student fails in the supplemental of a major examination, there are definite restrictions as shown below, but if he fails in the supplemental of a minor examination he is permitted to carry conditions as shown below.

A student is not allowed supplementals in three major examinations in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student is not allowed supplementals in two major and one minor examination in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

Unless the Promotion Committee finds special mitigating circumstances, a failure in the supplemental of a major examination will require the student to repeat the course (repeat the year), and no student may repeat such a course more than once. Any student who fails in the supplementals of two major examinations in any one year shall be required to retire without the privilege of further supplementals.

A student who fails in the supplementals of three or more minor examinations in any one session must repeat this session or may be asked to retire, as may be decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

A student who fails in the supplementals of not more than two minor examinations may proceed with other subjects in the following year, carrying such subjects as conditions, but may not sit any subsequent major examinations until the conditions have been removed, nor may he carry more than two conditions at one time.

All conditions must be removed by the end of the first term (November) in each session when additional supplemental examinations will be held. Failure in any of these will require the student to revert to the previous year and to repeat the courses of the Winter and Spring terms.

A student in the final year may take a supplemental examination in one subject only, but must present a certificate from the senior professor of the Department concerned that he has taken extra tuition in this subject in one of the teaching hospitals of the McGill Faculty of Medicine. If he should fail in this supplemental examination, he must repeat the year of study and pass all the major examinations at the completion of the session.

A student in the final year who fails in two subjects will not be permitted supplementals but must repeat the year or retire, as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student will not be allowed to repeat a year more than once nor may he repeat a subsequent year if such repetition has been due to failure in examinations, except on special recommendation of the Promotion Committee, acting upon the motion of the representatives on the committee of the Department concerned.

A student who has been permitted to repeat his year shall be required to make a C+grade, which for this purpose is considered to be 65%, or he will not be permitted to continue his course.

Examinations, tests, reviews, etc. will ordinarily be held during the session only at the end of the twelve week terms. It is understood that such examinations,

tests or reviews are conducted for the benefit of the student in order that he may have experience in the requirements of the sessional examinations, and further, that he and his teachers may know he is progressing in his studies. In the Fourth year final examinations will be held at the end of each rotation.

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There shall be two Promotion Committees. The First Committee shall consist of representatives of the subjects of Anatomy, Biochemistry, Histology, Physiology, Pharmacology, Medical Microbiology and Pathology appointed by the Dean, and the Dean and the Secretary ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the First and Second years.

The Second Committee shall consist of representatives of the Departments of Epidemiology and Health, Medicine, Surgery, Obstetrics and Gynaecology, Paediatrics, and Psychiatry appointed by the Dean, and the Dean and the Secretary ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the Third and Fourth years.

All results of examinations will be given out by the Dean's office, after they have been passed upon by the Promotion Committee. It is an absolute rule that no examination results shall be communicated by any other channel.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent. There can be no appeal from this decision.

GRADING

At the conclusion of each course, students are graded in five groups as follows: A = Excellent C = Fair E = Failure

B = Good D = Doubtful

In reporting the grading, the names of those students who attain "A" standing are arranged in order of merit; in all other grades the arrangement is alphabetical.

By regulation of the Faculty of Medicine, a student is not permitted more than one "D" grade in the examinations of a single year. In the presence of other "D" or "E" grades all "D" grades are automatically converted into failures by the Promotion Committees.

The grade assigned to a student is based upon the results of the Final Examination, but the instructor also takes into account the record of the work done through-

out the course.

The quality of the English used by a candidate is taken into account in determining his standing in all examinations.

REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

- 1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.
- 2. He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than nine months each in this University or in some other university, college or school of Medicine, approved by this University.
- 3. No one is permitted to become a candidate for the degree who has not attended at least two full sessions at this University.
- 4. Every candidate for the degree must have passed all the required examinations in the subjects comprising the Medical course.
- 5. He must have attended the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one

hundred beds) approved by this University and the practice of the Montreal Children's Hospital; and must have acted as clinical clerk in Medicine, Surgery, Paediatrics and Psychiatry and have fully reported upon the prescribed number of cases.

6. He must also have attended the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.

7. Every candidate must also have administered anaesthetics, under direction, at least six times, and have assisted at not less than six autopsies.

REQUIREMENTS FOR LICENCE

Candidates accepted for admission are reminded that it is their personal responsibility to ensure that they fulfil all the licensing requirements of the country in which they intend to practise medicine. A University degree does not confer the right to practise. In each province of Canada, in each one of the United States and in all other countries the authority to license is vested in a Licensing Body which has its own special laws and requirements. In many cases a special standard of general education is insisted upon before beginning the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained.

Candidates accepted for admission should therefore communicate as soon as possible with the licensing body of the country in which they intend to practise and obtain from that licensing body the necessary instructions.

N.B. — In order that disappointment and loss of time may be avoided, the University requires Canadian students to register with the licensing body of their home province before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:

QUEBEC — Dr. A. Roy, 1896 Dorchester Blvd. West, Montreal 25, P.Q. ONTARIO — Dr. J. C. C. Dawson, 64 Prince Arthur Ave., Toronto 5, Ont.

NEW BRUNSWICK — Dr. John R. Nugent, 112 Carleton St., Saint John, N.B. Nova Scotia — Dr. M. R. Macdonald, Victoria General Hospital, Halifax, N.S. PRINCE EDWARD ISLAND — Dr. R. G. Lea, 170 Fitzroy St., Charlottetown, P.E.I. Manitoba — Dr. M. T. Macfarland, 601 Medical Arts Building, 404 Graham Ave., Winnipeg 1, Man.

Alberta — Dr. W. Bramley-Moore, 9901 - 108th Street, Edmonton, Alta. Saskatchewan — Dr. G. W. Peacock, 932 Spadina Crescent E., Saskatoon, Sask.

BRITISH COLUMBIA — Dr. Lynn Gunn, 1807 West 10th Avenue, Vancouver 9, B.C.

NEWFOUNDLAND — Dr. Cluny Macpherson, P.O. Box 5279, St. John's, Nfld.

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In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, 77 Metcalfe Street, Ottawa 4, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance at lectures, practical work, and clinics are also accepted by the various examining boards in Great Britain.

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Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

GRADUATE COURSES LEADING TO DIPLOMAS IN THE CLINICAL DEPARTMENTS OF THE FACULTY OF MEDICINE

The Faculty of Medicine conducts graduate courses leading to Diplomas in Anaesthesia, Neurology and Neurosurgery, Psychiatry, Radiology and Urology.

ENQUIRIES

Initial enquiries and enquiries of a general nature should be addressed to the Associate Dean (Graduate Studies and Research) of the Faculty of Medicine.

Enquiries about the details of individual Diploma Courses should be addressed to the Chairman of the Department concerned.

REQUIREMENTS FOR ENTRANCE

The minimum requirements for entrance to a Diploma Course are (a) a degree from an approved Medical College or School and (b) at least one year's interneship. Details of the requirements are set forth under the individual Diplomas.

Credit may be given for study completed elsewhere than at McGill University, but to qualify for a Diploma, the student must spend at least two years of graduate study and training in a clinical department of the Faculty of Medicine of McGill University.

APPLICATION FOR ADMISSION

Application forms may be obtained from the Executive Secretary of the Faculty of Medicine or the Chairman of the Department concerned. The completed form should be submitted by the candidate to the Chairman of the appropriate Department. If the application is approved by the Department, this form is then sent to the Dean of the Faculty of Medicine for his approval.

EFEC

There is a registration fee of ten dollars to be paid each year on registration except when the student is enrolled in the Faculty of Graduate Studies and Research.

Certain of the Diploma Courses require the payment of fees in addition to the annual registration fee. Detailed information concerning these fees may be obtained by writing the Chairman of the Department concerned.

REGISTRATION

The various Diploma Courses in the clinical departments of the Faculty of Medicine lead to the award of diplomas by McGill University. Every student enrolled in such a course must therefore be registered as a student of McGill University.

On beginning the actual course of study leading to a Diploma the candidate must complete three copies of the Sessional Application Form. These are obtain-

able from the Secretary of the Faculty of Medicine or the Chairman of the Department concerned. These forms, completed by the student in triplicate, are submitted to the Chairman of the Department for his signature and then to the Dean of the Faculty of Medicine for his signature. One of the three forms will be retained by the Dean and the other two are to be taken by the candidate to the office of the Registrar of McGill University. Following registration at the Registrar's Office the candidate must proceed to the Cashier's Department to pay such fees as may be required. After registration and payment of fees have been completed the student returns one copy of the form to the Chairman of the Department and keeps the other in his own possession.

These procedures of completion of the Sessional Application Form in triplicate, with signing by the Chairman of the Department and the Dean, registration at the office of the Registrar, and payment of fees must be carried out *annually* at the beginning of each year of the Diploma Course. If the student has been posted to an out-of-town centre for the session involved registration forms will be mailed to him by the Registrar, on request.

The final date for registration is October 1. If a candidate is permitted to begin a Diploma Course later than October 1, registration must be carried out within one month of the commencement of the course.

If, during his academic year, the student is enrolled in the Faculty of Graduate Studies and Research, he must complete the procedures described above in addition to those required by the Faculty of Graduate Studies and Research, except that a registration fee for the Diploma Course is not required for that particular year.

It is the responsibility of the student to ensure that the Sessional Application Forms are completed and that registration and payment of fees are carried out.

ENROLMENT AS PARTIAL STUDENT IN FACULTY OF GRADUATE STUDIES AND RESEARCH

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COURSES OF INSTRUCTION

DEPARTMENT OF ANAESTHESIA

Professor — R. G. B. GILBERT (Chairman).

Wellcome Research Professor - . . -

Assistant Professors — G. F. Brindle, P. R. Bromage, W. G. Cullen, H. T. Davenport, G. Ellison, R. Ferguson, A. Galindo, A. B. Noble,

D. J. POWER, W. E. B. SCOTT, J. B. I. SUTHERLAND.

Lecturers — A. MATZKO, A. W. McDonald, P. Otton, J. R. Rosales,

C. A. SHERIDAN, F. R. H. WRIGLEY, J. E. WYNANDS.

Demonstrators — H. BOWMAN, M. F. BURFOOT, W. FARLEY, D. A. FIRTH,

D. GILLIES, S. W. LARKING, J. J. McGrath, J. L. McWatt, A. N. Mungall, A. Petrasek, P. Quan, F. A. Robillard.

UNDERGRADUATE COURSES

A student in Medicine, before reaching that part of the curriculum which deals with Anaesthesia, will have acquired during the earlier years at the University some incomplete, but important knowledge of Anaesthesia while taking courses in Anatomy, Physiology, Biochemistry, Pharmacology and Pathology.

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In the Third Year he joins a small group which attends a series of tutorial classes taken by a senior anaesthetist. At these sessions, he will be instructed in the physio-pathology of patients undergoing anaesthesia and surgery which will serve as a background for the administration of anaesthesia.

In the Fourth year a period of one week is spent in the operating room. The student is assigned to an anaesthetist each morning from 8-12 while in the afternoon from 1:30 - 2:30 he attends a didactic session concerning the procedures he has witnessed.

Also in this year the one month "Period of Election" may voluntarily be spent in the Department of Anaesthesia of one of the University hospitals. This presents opportunity for additional supervised clinical work in the operating room, the recovery room and the intensive care unit.

GRADUATE AND CONTINUING EDUCATION COURSES

Diploma in Anaesthesia (Dip. Anaes.)

Minimum prerequisites for entry to the Diploma Course in Anaesthesia are a degree from an approved Medical College or School and one year's rotating interneship in an approved hospital. Foreign students may be subject to further requirements, depending on circumstances.

Applications for admission should be addressed to the Chairman, Department of Anaesthesia, McGill University.

The course is of three years duration. Credit may be given up to one year for work done elsewhere. Candidates, once enrolled, may under certain circumstances spend one of the three years at another centre, provided this meets with the approval of the Chairman of the Department. In all instances, to qualify for the Diploma the student must spend at least two years of graduate study in the Department of Anaesthesia of McGill University.

Each student is assigned for clinical work to one of the participating hospitals. Having spent six or twelve months in the hospital to which he was first posted, the student is then rotated every six months through a number of hospitals within this framework. Some of the hospitals are specialized while others are general.

During each appointment of six months, the Residents are directed by the staff members of the particular hospital where that residency is being served. Seminars are held weekly according to a programme which is the same for all hospitals. Some departments hold sessions which are set aside for review of the literature, while others have special sessions for the discussion of interesting cases. All the hospitals have excellent library facilities, and the libraries of the medical faculty are also accessible.

Every Wednesday evening a meeting is held for all the anaesthetists in the city, and any visitors who wish to attend. The students on the course are required to be present. At these meetings there may be a guest speaker, or reports of interesting cases. At each meeting one of the members of the Diploma Course reads a twenty minute summary of a specially prepared essay. These essays form one of the requirements of the course, the preparation of which teaches the use of the library and the critical appraisal of the literature, while the delivery is a useful experience in public speaking.

Certain senior members of the Department of Anaesthesia who also hold appointments in the Basic Science departments give the Basic Science lectures.

Their lectures are specifically fashioned to teach Applied Basic Science as related to Anaesthesia. In the First year, a graduate student will take Anatomy and Pharmacology, in the Second year Physiology and Biochemistry, while in the Third year the whole relationship of the Basic Sciences to Anaesthesia will be reviewed by systems in an integrated manner. Examinations are held at the discretion of those in charge of the Basic Science courses.

Within the Department of Anaesthesia at McGill University is an Anaesthesia Research Department which is generously financed by the Wellcome Trust. This Department plays an important part in the academic teaching of members of the Course.

The granting of the Diploma is subject to complete satisfaction in all the clinical rotations and Applied Basic Science courses. The Chairman and Chiefs of Clinical Departments reserve the right to dismiss at any time all those whose work is unsatisfactory or who appear to have chosen the wrong medical specialty.

Further information may be obtained by writing the Chairman, Department of Anaesthesia, McGill University.

Revision and Refresher Course

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A one-week revision and refresher course in Anaesthesia is conducted in September for those sitting examinations and for general practitioners engaged in Anaesthesia.

Information about this course may be obtained by writing the Chairman, Department of Anaesthesia, McGill University.

DEPARTMENT OF ANATOMY

Professors — C. P. LEBLOND (Chairman), S. M. BANFILL, Y. CLERMONT.

Associate Professor — D. G. OSMOND.

Assistant Professors - N. J. NADLER, H. E. VAN HEYNINGEN.

Lecturers — A. N. Freedman, O. Hommes, C. Huckins, B. Kopriwa, M. R. Schwarz, H. Warshawsky, E. W. Workman.

Sessional Lecturer — B. R. M. FITZGERALD.

REQUIRED COURSES

1. Gross Anatomy.

First year: Dissection and lectures cover the gross anatomy of the body except the Head, Neck and Brain. The course includes Embryology and Surface and Radiological Anatomy.

Second year: Dissection and lectures on the Head, Neck and Brain. This course is followed by 2. Introduction to the Central Nervous System, listed below, and a combined examination is held at the end of the year.

2. Introduction to the Central Nervous System. For Second year students and conducted with the co-operation of the Departments of Neurology and Neurosurgery, Physiology and Psychology. This course is listed under the Department of Neurology and Neurosurgery as 2A.

3. Applied Anatomy. Designed for graduate students.

Textbooks: J. C. B. Grant, A Method of Anatomy, 6th ed. (Williams and Wilkins, 1958). D. F. Davies and F. Davies, Gray's Anatomy, 33rd ed. (Longmans 1962).

Atlas: J. C. B. Grant, An Atlas of Anatomy, 5th ed. (Williams and Wilkins, 1962).

Practical Manual: J. T. Aitken et al., A Manual of Human Anatomy, 5 vols. (Livingstone 1956-58).

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Surface Anatomy: A. B. Appleton et al., Surface and Radiological Anatomy, 4th ed. (Heffer 1958).

Introduction to Medicine. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry and Physiology, in rotation.

ELECTIVE COURSES

The Department provides, as far as material will permit, facilities for advanced work or revision. The Chairman of the Department should be consulted by anyone wishing to undertake work of this nature.

4. Advanced Neuro-Anatomy. Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton. The class is limited to ten. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.

Microscopic Anatomy

REQUIRED COURSE

Histology. The study of the cytology and structure of tissues and organs.
 Textbooks: A. W. Ham and T. S. Leeson, Histology, 4th ed. (Lippincott, 1961);

 W. Bloom and D. W. Fawcett, A Textbook of Histology, 8th ed. (Saunders, 1962).

Embryology

REQUIRED COURSE

8. The Study of Human Developmental Anatomy. This course is integrated with 1. Gross Anatomy.

Textbooks: J. Langman, Medical Embryology, (Williams and Wilkins 1963); L. A. Arey, Developmental Anatomy, 6th ed. (Saunders 1954); W. J. Hamilton et al., Human Embryology, 2nd ed. (Heffer 1952).

For graduate courses, see Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF BACTERIOLOGY AND IMMUNOLOGY

Professors — R. W. REED (Chairman), G. G. KALZ, J. W. STEVENSON.

Associate Professors — G. W. BARTLETT, C. A. BUTAS, B. H. MATHESON,
S. I. VAS.

Assistant Professors: H. Abramovitch, P. M. Cooke, M. Franklin, L. Kapica, E. Mankiewicz, A. M. Masson.

Lecturers — S. Nommik, F. Prissick, R. Silov.

Demonstrator — E. Wood.

Teaching Fellow - R. SWAN.

All lectures and laboratory periods are held in the Pathological Institute.

20. Medical Microbiology.

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Second Year. This course deals with the general principles of medical microbiology and immunology. Both lectures and laboratory are concerned with the anatomy and physiology of infectious agents, theories of infection and immunity and a systematic study of bacteria, viruses, rickettseae, fungi and parasites pathogenic to man.

25. Dental Microbiology.

OTHER COURSES

The Department offers a range of courses leading to the Honours B.Sc. in Bacteriology and is well-equipped for graduate research leading to the M.Sc. and Ph.D. Training in clinical bacteriology is available in the service laboratories of the Royal Victoria Hospital and the Montreal Neurological Institute located in the Department.

See Announcements of the Faculty of Arts & Science and the Faculty of Graduate Studies.

DEPARTMENT OF BIOCHEMISTRY

Professors — K. A. C. Elliott (Chairman), O. F. Denstedt, J. H. Quastel, P. G. Scholefield.

Associate Professors — E. A. Hosein, D. Rubinstein, M. Saffran, S. Solomon.

Assistant Professors — M. Davies, Rose M. Johnstone, J. H. Spencer, S. C. Sung.

Lecturers — ELEANOR M. HARPUR, SALLY MACLACHLAN.

FIRST YEAR

Biochemistry. Three hours lectures and four hours laboratory per week.

Introduction to Medicine. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry, and Physiology, in rotation.

One hour per week from October.

THIRD YEAR ELECTIVE

Research in Biochemistry and Physiology. A limited number of students may take Biochemistry or Physiology as their elective subject in the Third year. These students will be given the opportunity to participate in research projects in the Department.

OPTIONAL ADDITIONAL COURSES

For students who are interested in additional studies in Biochemistry the following courses are recommended:

45. Metabolism. Oxidation processes and energy transfer. General intermediary metabolism. Hormonal control of metabolism.

Three hours per week. The high are should wrotered the estated HA

601-701. Specialties and Recent Advances in Biochemistry. In this course groups of lectures will outline special fields of Biochemistry in which advances have been rapid. The content of the course will change from year to year.

One hour.

This course is open only to students who have previously taken advanced courses in Biochemistry.

OTHER COURSES

For other undergraduate courses in Faculty of Arts and Science, see Announcement of that Faculty. For graduate courses, see Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF EPIDEMIOLOGY AND HEALTH

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Strathcona Professor — J. C. McDonald (Chairman).

Associate Professor — A. D. McDonald.

Assistant Professors — M. A. Bain, J. G. Lohrenz.

Lecturers - D. C. Bews, D. S. Fleming, F. M. Jones, B. Pollak, M. G. TOWNSEND, F. WIENER.

Demonstrators — M. A. HICKEY, E. M. MANKIEWICZ.

FIRST YEAR H. I. TORTEMAN OF DEMONSTRATE OF A X -- PROSESSOR

1. Medical Statistics.

12 lectures with practical exercises.

SECOND YEAR

2A. Epidemiology.

24 lectures.

LECTUREYS - FLEANOR M. HARPIR, SALLY MACL 2B. Community Health Services.

12 afternoons devoted to visits, demonstrations and discussions.

2C. Industrial Medicine.

12 lectures. The force the month and the second of the sec

THIRD YEAR

3A. Field Survey Course.

Four afternoons a week for three weeks during which students in small groups undertake epidemiological surveys in the community.

3B. Medical Jurisprudence.

12 lectures by invited speakers mainly from the Faculty of Law.

HISTORY OF MEDICINE

Professor —

REQUIRED COURSES

- 1. Introductory Course (First year). A series of 12 lectures to provide an historical orientation to the student entering upon the study of medicine.
- 2. History of Medicine (Second year). A series of 12 lectures providing a survey of the history of relationships between medicine and general culture.

DEPARTMENT OF INVESTIGATIVE MEDICINE

Professor — J. S. L. BROWNE (Chairman).

Associate Professors — C. J.-P. GIROUD, N. KALANT.

Assistant Professors — A. CARBALLEIRA, J. STACHENKO.

Research Associate - S. SOLOMON.

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Honorary Lecturers — J. GENEST, G. LEMIEUX, J. MARC-AURELE, W. J. NOWACZYNSKI.

Lecturers — I. T. BECK, C. I. CHAPPEL, B. MURPHY, R. SCHUCHER.

The Department offers courses leading to the degrees of M.Sc. and Ph.D. in the Faculty of Graduate Studies and Research and provides research facilities for these students or for other persons proceeding to graduate degrees, diplomas or for other qualified individuals. The Department is also prepared to make arrangements to offer elective courses for Medical undergraduate students.

The courses and the direction of research in this department are given in close collaboration with the Department of Experimental Medicine and members of either department give lectures and direct the research of graduate students registered in the other.

Students may work either in the Medical Building or in one of a number of hospitals depending on the type of work done (clinical or laboratory) or upon the individual directing the research. Part of the function of the department is the correlation of clinical investigation being done at various hospitals.

Students holding either the M.D. or B.Sc. degree or its equivalent may enter the department provided that their standing is acceptable. For the list of courses and further details see the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF MEDICINE

Professors — D. G. CAMERON (Chairman), J. C. BECK, R. V. CHRISTIE.

Associate Professors — G. A. Copping, G. E. Craig, R. R. Forsey, S. O. Freedman, G. W. Halpenny, W. H. P. Hill, M. M. Hoffman, C. H. Hollenberg, J. G. Howlett, A. L. Johnson, Louis Lowenstein,

J. L. McCallum, E. E. McGarry, M. McGregor, H. S. Mitchell,

E. A. S. REID, S. R. TOWNSEND.

Assistant Professors — M. Aronovitch, C. M. Ballem, R. C. Bennetts,

F. M. BOURNE, L. BRUNTON, B. A. COOPER, R. F. P. CRONIN, J. H. DARRAGH, N. K. M. DELEEUW, J. B. DOSSETOR, C. A. GORESKY,

D. G. Johns, L. G. Johnson, G. E. Joron, F. Kalz, M. Kaye,

D. G. KINNEAR, B. A. LEVITAN, D. J. MACINTOSH, R. D. MCKENNA, J. M. McKenzie, K. R. Mackenzie, J. F. Meakins, I. G. Milne,

J. A. P. Paré, C. J. Pattee, P. Schopflocher, L. Shapiro, K. A. Sowden, C. H. STACEY, P. B. STEWART, D. STUBINGTON, A. T. THOM.

Lecturers — Eva Arendt, C. S. Barker, R. G. Baxter, I. T. Beck,

J. O. W. Brabander, P. A. Bradley, J. L. Brandt, L. G. Caswell,

R. A. Cleghorn, Wm. Cohen, Keith Dawson, P. A. Edwards, A. Gold, Alec Gordon, T. R. Hale, R. G. M. Harbert, J. L. Hutchison, A. G. Kendall, A. Knight, L. Kovacs, A. W. Lapin, W. Leith, A. D. MacDonald, C. C. MacDonald, J. R. Martin, A. Miller,

R. E. G. Place, J. S. Polson, J. A. Shanks, R. L. Stanford, P. P. Telner,

D. L. THOMSON, P. G. WEIL, J. WENER, R. D. WILKINSON,

D. H. WOODHOUSE.

Demonstrators — J. R. Albert, A. Aronoff, D. Barza, T. A. Brown,
Parker Chesney, M. S. Cohen, S. R. Cooper, R. E. Donevan,
S. Eidinger, C. M. Flint, P. A. Flint, S. J. Helle, M. A. Hickey,
L. J. Korenberg, M. Kunstler, W. A. R. Laing, I. Lapin,
W. K. Macdonald, N. MacIntosh, D. G. Mackay, D. M. Marcus,
W. E. H. Mason, P. Mlynaryk, T. Monks, W. H. Palmer, B. Pollak,
L. Redmond, S. L. Richardson, J. E. Rubin, P. Sommerfreund,
J. A. Sosa, K. R. Stewart, T. J. Sullivan, E. A. Turcot, H. A. Warner,
I. Winkler, D. Wiselberg, J. C. G. Young.

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Experimental Medicine

Professors — D. V. Bates, E. H. Bensley, B. Rose, Eleanor H. Venning.

Associate Professors — Ronald Hobkirk, B. A. Kovacs, Samuel Solomon.

Assistant Professors — Margaret R. Becklake, L. Goodfriend,

Maxwell Richter, David Rubinstein, D. B. Tonks.

Lecturers — R. Blostein, P. A. Bradley, H. L. Goldsmith, I. Gyenes, P. T. Macklem, D. A. Rotenberg.

Demonstrators — DAVID EIDINGER, L. A. WRIGHT.

N.B.: See Announcement of the Faculty of Graduate Studies and Research.

THE UNDERGRADUATE CURRICULUM IN THE DEPARTMENT OF MEDICINE

FOREWORD

The object of the following courses is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease, to afford a knowledge of the technique, and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students, teachers, and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy, and biochemistry with clinical medicine is emphasized—not only in the pre-clinical years, but later in hospital and laboratory—thus affording students a modern scientific medical training. The importance of regarding the patient as a person is emphasized throughout.

Unusual facilities are afforded at the Royal Victoria Hospital and at the Montreal General Hospital where there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

REQUIRED COURSES

SECOND YEAR

Course II 1—Integration of Physiology, Biochemistry and Anatomy with Medicine.

Time — Last term of Second year: three lectures a week.

Place — Medical Building.

Subject Material — This course covers in a systematic manner the deviations from the normal of the physiological and biochemical functions. These are correlated so as to explain symptoms and signs which may be found on physical examination as detected by clinical methods dealt with in Course II 2. This course is so interpreted as to give the student a panoramic view of these disturbances with a proper perspective.

Course II 2-A Practical Course in Clinical Methods.

Time - Third term of Second year.

Place — The Royal Victoria, Montreal General, and Queen Mary Veterans' Hospitals.

Subject — Practical instruction 6 hours a week on Normal and Abnormal Physical Signs.

Course II 3—Laboratory Diagnosis.

Time — Last term of Second year.

Place - Medical Building.

Subject — Instruction and practice 2 periods a week in microscopy as applied to clinical medicine.

Dr. Lauder Brunton and Assistants

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Course III 4—Case Reporting

During the trimester in Medicine students will be assigned patients in the wards. They will be required to write case histories, make a general examination, note progress, and do such laboratory investigations as are within their scope and have access to all other Laboratory and X-Ray findings. Teaching Fellows will be available to assist students in this work. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

Course III 5—Clinico-Pathological Conference

Time — Weekly during the medical term.

Place — The Royal Victoria and the Montreal General Hospitals.

Course III 6. Integration of Physiology, Biochemistry and Anatomy with Medicine — a continuation of course II.

One lecture a week for 2 terms, two lectures a week for the third term.

Course III 7—Therapeutics. A course of lectures on the principles of therapeutics and on the treatment of various diseases for which clinical material is not readily available.

FOURTH YEAR

Course IV 8—Case Reporting. An effort is made to enable the student in the Fourth year to take an active part in the care of the patient, both in the wards and in the Out-door Clinics. One month will be spent on the wards and one month in the "Comprehensive Clinic" of the outpatient department. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

Course IV 9—Clinical Pathological Conference.

Time — Once a week during the medical term.

Place — The Royal Victoria and the Montreal General Hospitals.

For graduate courses in Medicine, see under Department of Investigative Medicine in this Announcement and under Department of Experimental Medicine in Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

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Professor of Neurology and Neurosurgery — THEODORE RASMUSSEN (Chairman).

Professor of Neurology — Francis McNaughton.

W. V. Cone Professor of Neurosurgery - WILLIAM FEINDEL.

Professor (Biochemistry) and Director Donner Laboratory of Neurochemistry — K. A. C. ELLIOTT.

Associate Professors of Neurology — D. W. BAXTER, D. L. LLOYD-SMITH, PRESTON ROBB.

Associate Professors of Neurosurgery — GILLES BERTRAND, JOSEPH STRATFORD.

Associate Professor of Neurological Radiology — DONALD MCRAE.

Associate Professor of Experimental Neurology — PIERRE GLOOR.

Associate Professor of Neuropathology — GORDON MATHIESON.

Associate Professor of Clinical Psychology — Brenda Milner.

Assistant Professors of Neurology — J. B. R. Cosgrove, Irving Heller, Reuben Rabinovitch, Allan Sherwin, W. F. T. Tatlow.

Assistant Professors of Neurosurgery — John Blundell, Charles Branch, Harold Elliott, Phanor Perot.

Assistant Professors of Neurochemistry — Hanna Pappius, Leonhard Wolfe.

Assistant Professor of Neurological Radiology — Roméo Ethier.

Lecturers in Neurology. — Frederick Anderman, Bernard Graham.

Lecturer in Experimental Neurology — ISRAEL LIBMAN.

Lecturer in Neurosurgery — HENRY GARRETSON.

Lecturer in Neuroanatomy — ALLAN MORTON.

Demonstrators in Neurology — J. Chabot, G. Celesia, V. Dohogne, F. Duplantis, G. Gianakakis.

Demonstrators in Neurosurgery - B. BARONE, L. DAYES, A. WONG.

Demonstrator in Neuropathology — O. Solis-Quiroga.

Demonstrator in Experimental Neurology - R. BROUGHTON.

Demonstrator in Electroencephalography — Lewis Henderson.

Research Associate - Y. LUCAS YAMAMOTO.

Fellows of the Montreal Neurological Institute — Bartolo Barone,
Paula Berger, Gerard Bots, Roger Broughton, Nicolas Buendia,
Anthony Buffery, Gastone Celesia, Jean Chabot, Jerome Davis,
Lloyd Dayes, David Derry, Victor Dohogne, Patrice Drouin,
Fernand Duplantis, Amado Espina, George Gianakakis,
Arthur Gindin, John Girvin, Alain Godon, Anthony Gorman,
Philip Grisham, Danilo Guzman, Joseph Hanaway,
Robert Hansebout, Marius Heuff, Otto Hommes,
Kazuo Kinoshita, Ikuko Koyama, Francis Leblanc, Norman Lush,
William McCann, Robert Nelson, Etienne Perret, Ruth Radbill,
Ricardo Rengifo, Jean Ribadeau-Dumas, Ahmet Satoglu,
Arthur Schwartz, Mario Sculco, Keith Seamans,
Toshikiyo Shommori, Orlando Solis-Quiroga, Matthew Spence,
Roy Steinberg, Girdharilal Taori, Felipe Valle, Andrew Wong.

SECOND YEAR

- 2A Introduction to the Central Nervous System. Combined course given by the Departments of Anatomy, Neurology and Neurosurgery, Physiology and Psychology. Two hours lecture, three hours laboratory and one hour demonstration per week, during the second term and two hours lecture per week during the third term.

 Professors McNaughton, Gloor, Burns and Hebb
- 2B Instruction in Clinical Examination of the Nervous System. Given in conjunction with the Department of Medicine in the third term.
- 2C Neuropathology. Given in conjunction with the Department of Pathology in the third term.

 Professor Mathieson
 - 2D Applied Physiology (Department of Medicine). Six lectures.

Professors Rasmussen, McNaughton and Staff

THIRD YEAR

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3A Clerkship in Neurology and Neurosurgery. Four afternoons per week for three weeks, at the Montreal Neurological Institute.

Professors Rasmussen, McNaughton and Staff

- 3B Survey Lectures, Diseases of the Nervous System. 12 lectures given during the first term.

 Professors Rasmussen, McNaughton and Staff
- 3C Clinics and Conferences in Conjunction with the Departments of Medicine and Surgery.

FOURTH YEAR

Clinics and Conferences in Conjunction with the Departments of Medicine and Surgery.

ELECTIVE COURSES

Neuroanatomy.

- 600. This course is given in combination with course 2A "Introduction to the Central Nervous System."
 - 601. Additional graduate seminars will be held co-ordinated with Course B.
 - 602. Preparation of a term paper on a neuroanatomical subject as arranged.
 - 603. Advanced Neuroanatomy for selected group; times to be arranged.

 Professor McNaughton

Neurophysiology.

- 610. Lectures and examination together with undergraduate course Neurology and Neurosurgery 2A "Introduction to the Central Nervous System."
- 611. Weekly seminars and demonstrations co-ordinated with Course A-2 (4 months, beginning in December). Mondays, 4:30 to 6:00 p.m.
- 612. Under exceptional circumstances, a paper on a neuro-physiological subject may be written by special arrangement as a substitute for 610.

Professors Gloor, Elliott and Wolfe

620. Colloquium in Clinical Neurology.

1 hour weekly, clinics and lectures, Wednesdays, 5:00 p.m. M.N.I. (9 months).

Staff and Visiting Lecturers

630. Seizure Mechanisms and Cerebral Localization: Clinical Electroencephalographic, and Roentgenographic Conference.

M.N.I. 11/2 hours weekly (9 months). Tuesdays, 4:00 to 5:30 p.m.

Professors Rasmussen, Gloor, McRae and Milner

640. Outline of Neurochemistry.

Instruction in Neurochemistry in addition to that provided in course B-2 may be obtained by special arrangement.

Professors Elliott and Wolfe

Neuropathology.

650. Six months laboratory work in Neuropathology.

Professors Mathieson and Bertrand

651. Conference in Neuropathology, Thursdays, 4-5 p.m.

Professors Mathieson and Bertrand

652. Introduction to Histopathology of the Nervous System. A short basic course for a limited number. By special arrangement with Professor Mathieson.

For graduate credit, courses 650 and 651 are required. Under special circumstances written and/or oral examinations may be substituted for 650 and 652.

Neurological Radiology.

- 660. Lecture demonstrations (3 months beginning in September). Mondays 4:30 to 6:00 p.m.
 - 661. Colloquium, 1 hour weekly (9 months) Mondays, 9:00 a.m.

Professor McRae

Electroencephalography.

- 670. Laboratory work in Electroencephalography (minimum of six months with active participation, seminars, lectures and conferences).
- 671. Lecture series and conferences in Electroencephalography. Fridays, 4:30-6:00 p.m., October and November, January and February.

 Professors Gloor and Lloyd-Smith

Diploma in Neurology (Dip. Neurol.)

Minimum prerequisites for entry to the Diploma Course in Neurology are a degree from an approved Medical College or School and one year's interneship in an approved hospital.

Applications for admission should be addressed to the Chairman, Department of Neurology and Neurosurgery, McGill University.

The course is of four years' duration and consists of the following units:

- A. One year of work in one of the related basic sciences, such as Neuropathology, Neurophysiology (including E.E.G.), Neuroanatomy, Neurochemistry, Neuroradiology, Endocrinology, etc. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery, or in some other department of McGill University on the recommendation of the Chief of the Service and with the approval of the Chairman of the Department of Neurology and Neurosurgery. Preparation of a thesis or a paper approved for submission for publication by the Laboratory Chief and the Professor of Neurology and Neurosurgery (Dr. Rasmussen), will be required. This year may be used for work toward a Master of Science degree in the Faculty of Graduate Studies and Research of McGill University (see Announcement of the Faculty of Graduate Studies and Research for requirements and registration procedure).
- B. Six months in Psychiatry in the Department of Psychiatry at McGill University. (Note: Under special circumstances the candidates may substitute six months in the Department of Psychiatry in some other accredited hospital or university.)

C. Six months in Neurosurgery at the Montreal Neurological Institute. (Note: Under special circumstances a candidate may substitute neurosurgical training received in the neurosurgical department of some other accredited hospital or university or additional training in Neurology or Medicine.)

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D. Two years in clinical Neurology, one of which must be at the Montreal Neurological Institute. The other year may be taken at other neurological centres with the approval of the Professor of Neurology and Neurosurgery and on recommendation of the Chief of the Neurological Service.

Before receiving the Diploma the candidate must successfully pass an oral examination in clinical Neurology and Neurosurgery.

Further information may be obtained by writing the Chairman, Department of Neurology and Neurosurgery, McGill University.

Diploma in Neurosurgery (Dip. Neurol. Surg.)

Minimum prerequisites for entry to the Diploma Course in Neurosurgery are a degree from an approved Medical College or School and one year's interneship in an approved hospital.

Applications should be addressed to the Chairman, Department of Neurology and Neurosurgery, McGill University.

The course is of four years' duration and consists of the following units:

- A. One year of work in one of the related basic sciences, such as Neuropathology, Neurophysiology (including E.E.G.), Neuroanatomy, Neuroradiology, Endocrinology, etc. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery, or in some other department of McGill University on the recommendation of the Chief of the Service and with the approval of the Chairman of the Department of Neurology and Neurosurgery. Preparation of a thesis or a paper approved for submission for publication by the Laboratory Chief and the Professor of Neurology and Neurosurgery (Dr. Rasmussen), will be required. This year may be used for work toward a Master of Science degree in the Faculty of Graduate Studies and Research of McGill University (see Announcement of the Faculty of Graduate Studies and Research for requirements and registration procedure).
- B. Six months in clinical Neurology at the Montreal Neurological Institute. (Note: Under special circumstances, credit for six months of clinical Neurology in some other accredited hospital or university department of Neurology or additional training in Surgery, Medicine or Neurological Surgery may be accepted.)
- C. Six months in special work in a related field such as Neurophysiology, Neuroanatomy, Neuropathology, Biochemistry, Endocrinology, Metabolism, Psychiatry, etc., acceptable to the Chairman of the Department of Neurology and Neurosurgery.
- D. Two years in clinical Neurosurgery at the Montreal Neurological Institute.

 Note: Either unit A or C must be carried out in the Department of Neuropathology at the Montreal Neurological Institute.

Before receiving the Diploma the candidate must successfully pass a final oral examination on clinical Neurology and Neurosurgery.

Further information may be obtained by writing the Chairman, Department of Neurology and Neurosurgery, McGill University.

For graduate courses in Neurology and Neurosurgery, see also Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

Professors — G. B. MAUGHAN (Chairman), K. T. MACFARLANE.

Associate Professors - W. R. FOOTE, J. P. A. LATOUR, T. PRIMROSE, G. A. SIMPSON, F. J. TWEEDIE.

Assistant Professors - M. HENDELMAN, J. L. MACARTHUR, J. H. ROUTLEDGE, D. W. SPARLING, M. H. V. YOUNG.

Lecturers - P. R. BLAHEY, H. B. BOURNE, GRACE DONNELLY, SIMON GOLD, J. S. HENRY, JR., E. A. MACCALLUM, HARRY OXORN, P. C. TREMBLAY, R. H. USHER.

Demonstrators - G. H. ARRONET, R. P. BECK, J. R. DODDS, W. D. FRASER, C. C. LINDSAY, R. M. PARSONS.

Teaching and Administrative Assistants — J. R. O'BRIEN, R. M. H. POWER.

Undergraduate Course

The course is designed to impart a fundamental knowledge of the processes of human parturition, gynaecology and the care of the new-born. The student is introduced to the subject in his Second year. Thereafter in both his Third and Fourth years, intensive teaching is carried out using to the full the facilities of the Royal Victoria Montreal Maternity Hospital and to a lesser extent the gynaecological wards of the Montreal General Hospital. The Royal Victoria Montreal Maternity Hospital is the largest teaching unit of its kind in Canada and the clinical material to be found in its wards in approximated. material to be found in its wards is unsurpassed.

REQUIRED COURSES

SECOND YEAR

An introductory course of twelve lectures is given by Professor Maughan during the last term. Following a review of the embryology and anatomy of the female genital tract the particular biochemical and endocrine aspects of the subject are taken up. The course closes with a description of the physiology of pregnancy and labour. Lectures are held in the Medical Building, McGill University.

THIRD YEAR

OBSTETRICS

During this year, twenty-eight lectures are given to teach the fundamentals of pregnancy, labour and the puerperium by the members of the Royal Victoria Montreal Maternity Hospital Staff. Following this series the Montreal General Hospital Staff conduct five lecture classes as an introduction to Gynaecology. Lectures are held in the Medical Building, McGill University.

An intensive six weeks of instruction in Obstetrics is given each group of students during the academic year by the Staff of the Royal Victoria Montreal Maternity Hospital. Student groups are further divided into smaller tutorial units so that individual students can be given the greatest opportunity to take part in the practical work of the class.

Eighteen hours are devoted to Manikin Instruction. Physical diagnosis at the bedside and Clinical Management in the wards and case rooms are allocated six hours each.

Professor Maughan conducts six seminars on the Principles and Theory of Obstetrics and a further six hours are taken up by the members of the Staff in reviewing current work in the subject.

Six hours of gynaecological colloquia are given by a senior member of the Royal Victoria Montreal Maternity Hospital Staff to augment the gynaecological teaching noted below.

Students are also required to attend Departmental Ward Rounds in the Royal Victoria Montreal Maternity Hospital when interesting cases are discussed and lectures given on the latest advances in the field.

Six classes are given by Doctor G. Nickerson, Paediatrician-in-Chief of the Royal Victoria Hospital and his Staff to introduce the student to the care of the new-born.

GYNAECOLOGY

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Two mornings weekly throughout the six weeks are devoted to the teaching of Gynaecology at the Montreal General Hospital. Each teaching day is divided into three parts — (1) student participation groups or outdoor clinic instruction groups, (2) clinical teaching, and (3) didactic lectures. The student participation groups comprise nine periods devoted to the preparation and presentation of an allotted subject from the standard textbooks and current literature, supervised by a member of the teaching staff. The outdoor clinic instruction groups, with two or three students at a time, are intended to teach the techniques and details of gynaecologic examination with an introduction to commonly encountered gynaecologic problems at first hand. The clinical teaching consists of ward rounds, clinical pathological conferences, and the demonstration of minor gynaecologic operative procedures. The didactic lectures cover twelve major topics in Gynaecology.

Professor MacFarlane and Assistants, Montreal General Hospital

FOURTH YEAR

No formal lectures are given during the intensive four week course in Obstetrics and Gynaecology which is held entirely in the Royal Victoria Montreal Maternity Hospital. Students are coached in small groups and will live in the hospital for at least nine days. While living in, they are expected to participate in the work of the delivery rooms and wards. Written case reports are required and the student's progress is assessed partly on the care taken in the recording of the assigned cases and their follow-up. Teaching is divided between Obstetrics and Gynaecology using the facilities of the indoor and outdoor departments.

An eight hour refresher course in Manikin is given.

Professor Maughan conducts group hospital rounds once a week.

Twenty-four hours are devoted to bedside clinics on antepartum and postpartum management of the obstetrical patient with particular emphasis on the recognition and treatment of complications.

Eight hours of revision seminars.

Professor Primrose

Sixteen hours are devoted to the discussion of problems presented by the students.

R.V.M.M.H. Staff

Attendance at Outdoor clinics four afternoons a week is compulsory. Minor gynaecology and antepartum care are taught by the Staff members in charge of the cases. Students are also required to be present at Departmental Staff rounds each Monday morning during term.

Twelve bedside clinics are given in Gynaecology by members of the Staff.

Eight lecture-demonstrations in Gynaecological Pathology are given by Professor Latour and assistants who are also responsible for four hours of clinical instruction on the diagnosis and treatment of genital cancer.

Clinical Endocrinology is reviewed in four sessions of one hour.

Textbooks: N. J. Eastman and L. M. Hellman, Obstetrics (Appleton); Jeffcoate, Principles of Gynaecology (Butterworth); F. W. Roques, Diseases of Women, 10th ed. (Arnold 1959); Harry Oxorn and W. R. Foote, Human Labor and Birth (Appleton 1964).

Graduate Programme

The Department of Obstetrics and Gynaecology directs a five-year graduate programme involving residency training in a number of English-speaking hospitals in Montreal, with lectures and seminars in both pre-clinical and clinical fields and opportunities for research. Minimum prerequisites for entry into this programme are a degree from an approved Medical College or School, one year's rotating interneship, and one year of Surgery or half a year each of Surgery and Medicine at the assistant residency level. Further information may be obtained by writing the Chairman, Department of Obstetrics and Gynaecology, McGill University.

DEPARTMENT OF OPHTHALMOLOGY

Professor — JOHN C. LOCKE (Chairman).

Associate Professors - S. T. Adams, J. V. V. Nicholls.

Assistant Professors - WM. TURNBULL, R. J. VIGER.

Lecturers - R. A. BOURNE, H. A. G. DUNCAN, E. GORDON,

L. S. S. KIRSCHBERG, A. B. LEITH, SEAN B. MURPHY, R. W. PEARMAN,

Demonstrators — J. B. Conroy, J. A. Foreman, J. G. Little, A. McKinna, P. Rosenbaum.

Undergraduate Courses

The undergraduate work in Ophthalmology is designed to meet the needs of a well-trained general practitioner and embraces the following courses:

SECOND YEAR

1. Routine Examination of the Eye. The various tests used in routine examination of the eye are demonstrated. Instruction in the use of ophthalmoscope is emphasized.

Five hours.

2. Pathology of the Eye. Six hours: two periods of three hours each.

THIRD YEAR

1. Lectures to the Entire Class. A survey of the entire field designed to furnish a background of essential information for the clinical work.

Twelve hours

- 2. Practical Ophthalmoscopy. Montreal General and Royal Victoria Hospitals. Nine hours.
- 3. Elective Course in Ophthalmology. This intensive four-week course is given three times during the latter half of the Third year. The number of students in any four-week period is limited to two.

The classes include attendance at clinics, ward rounds and seminars; periods in the eye operating room; preparation of an assigned topic requiring consultation of current literature.

FOURTH YEAR

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Nine hours.

Textbooks: Francis H. Adler, Gifford's Textbook of Ophthalmology, 6th ed. (Saunders, 1957); C. A. Perera, May's Manual of the Diseases of the Eye, 22nd ed. (Williams and Wilkins, 1957).

Reference books: W. S. Duke-Elder, Textbook of Ophthalmology, 7 vols. (Mosby, 1932-54); Eugene Wolff, Anatomy of the Eye and Orbit (Blakiston, 1954); Eugene Wolff, Pathology of the Eye, 3rd ed. (Blakiston, 1951); Francis H. Adler, Physiology of the Eye, 3rd ed. (Mosby, 1959).

Graduate Programme

Through the three major teaching hospitals of McGill University, the Department of Ophthalmology conducts a graduate programme of residency training with scheduled lectures, seminars, case presentations and ward rounds. This programme prepares candidates to meet the requirements for Fellowship of the Royal College of Surgeons of Canada and also for the American Board of Ophthalmology. Detailed information concerning this programme may be obtained by writing the Chairman, Department of Ophthalmology, McGill University.

DEPARTMENT OF OTO-LARYNGOLOGY

Professor — H. E. McHugh (Chairman).

Associate Professors — D. G. Doehring, R. P. Gannon (Experimental Oto-Laryngology), E. A. STUART.

Assistant Professor — E. John Smith.

Lecturers — J. D. Baxter, K. K. Charan, Arnold Grossman, A. Mostoller, L. Peck, G. T. Shimo.

Demonstrators - R. HALL McCoy, R. McMillan, W. H. Novick.

Undergraduate Courses

Instruction in Oto-Laryngology is given to students in the Second, Third and Fourth years and is designed to meet the needs of the general practitioner. The clinical courses are conducted in the wards and outpatient departments of the Montreal General, the Royal Victoria and the Montreal Children's Hospitals. The practical demonstrations are given before small groups of students.

SECOND YEAR

A special demonstration of Ear, Nose and Throat Anatomy on living subjects is given while the students are studying Anatomy of the Head and Neck. Physical diagnosis is also taught in six demonstrations. The students review the anatomy of the ears, nose and throat and are taught to use the head mirror and the special instruments more commonly used in the examination of these parts.

THIRD YEAR

Clinical instruction in the outdoor clinics and wards is given to small groups in "block time" consisting of consecutive mornings for one week for each group. Twelve lectures on Ear, Nose and Throat subjects are given to this class as a whole during the third term.

FOURTH YEAR

Clinical instruction is carried out in the outpatient departments in small groups and the students are given as much personal supervision as possible. The students attend two clinics per week for eight consecutive weeks and take an active part in the examination and treatment of the patients.

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ELECTIVE COURSES

The new curriculum provides for Elective Courses of one month in this specialty.

Graduate Courses

See Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF PAEDIATRICS

Professor — ALAN ROSS (Chairman).

Associate Professors — D. V. BATES, R. L. DENTON, A. L. JOHNSON, E. M. WORDEN.

Assistant Professors — H. L. Bacal, K. N. Drummond, R. B. Goldbloom, D. A. Hillman, G. H. Nickerson, J. H. O'Neill, C. R. Scriver.

Lecturers — P. Beaudry, Mimi Belmonte, D. K. Clogg, Eleanor Colle, J. H. Elder, F. C. Fraser, J. E. Gibbons, V. C. Goldbloom, R. Gourdeau, Eleanor Harpur, Wanda Jegier, M. Silverberg,

R. USHER.

Demonstrators — P. Banister, H. Brickman, H. R. Brodie, J. S. Charters, T. A. Cowan, Pamela Fitzhardinge, Elizabeth Hillman,

D. R. McCrimmon, V. Marchessault, A. J. Markus, Sidney Pedvis, P. M. Senecal, L. Stern, H. H. Surchin, W. W. Tidmarsh, M. B. Wise, Isobel Wright.

REQUIRED COURSES

1. Lectures:

(a) A series of 6 lecture-demonstrations on Growth and Development in the last term of Second year.

(b) A course of 24 lectures once weekly during the Third year entitled "The Developmental Biology of Paediatrics". The course is designed to stimulate the student's interest in basic science and to direct and apply it to problems of the developing fetus and newborn in preparation for his clinical experience in Fourth year.

Staff

2. Diseases of the Newborn: Royal Victoria Montreal Maternity Hospital:

(a) A weekly clinic demonstration to groups of students of the Third year during their obstetrical quarter.

(b) A weekly lecture to groups of Fourth year students during their four weeks in Obstetrics.

(c) Two days of direct contact with normal and abnormal newborn infants during block time teaching in final year.

3. Clinical Paediatrics:

(a) Groups during the final year spend eight weeks entirely at the Montreal Children's Hospital as clinical clerks taking part in bedside clinical conferences and, under supervision, caring for patients in the outpatient department.

- (b) Normal growth and development, the care and feeding of the normal infant, immunization procedures, and preventive paediatrics are taught at the Child Health Clinic in the Montreal Children's Hospital.

 Staff
- (c) A series of demonstrations to groups of students on the common infectious diseases is given at the Alexandra Hospital as part of the instruction of the final year.

 Staff

DEPARTMENT OF PATHOLOGY

Strathcona Professors — G. C. McMillan (Chairman), F. W. Wiglesworth.

Associate Professors — S. Kahn, W. H. Mathews, W. J. Pirozynski, H. Sheldon, W. M. Thurlbeck.

Assistant Professors — J. V. Frei, G. Mathieson, S. Moore, G. Rona, M. A. Simon, B. I. Weigensberg.

Lecturers — A. Angel, J. S. Fawcett, J. Knaack, D. R. Murphy, P. Schopflocher, H. C. Stary.

Demonstrators — I. Kerner, J. P. A. Latour, M. B. MacKenzie, J. R. Stuart.

REQUIRED UNDERGRADUATE COURSES

1. Course in General Pathology (First year):

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- 100. Illustrated lectures during the Spring term totalling 36 hours.

 *Professor McMillan and Staff**
- 101. Practical laboratory classes during the Spring term totalling 72 hours.

 *Professor Pirozynski and Demonstrators**
- 2. Course in Special Pathology (Second year):
 - 200. Illustrated lectures throughout the Second year totalling 72 hours.

 *Professor McMillan and Staff**
- 201. Practical laboratory classes throughout the Second year totalling 72 hours.

 Staff
 - 202. Group demonstrations throughout the Second year totalling 72 hours.

 Staff
- 3. Course in Applied Pathology (Third and Fourth years):
- 300. Clinico-pathological Conferences alternate weeks throughout the Third year totalling 54 hours.

 Professor McMillan and Staff
- 400. Instruction in the performance of autopsies with demonstration of autopsy findings during the Fourth year.
 - Pathological Institute
 - Montreal General Hospital
 - Montreal Children's Hospital

Professor Thurlbeck

Professor Mathews
Professor Wiglesworth

GRADUATE COURSES

See Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF PHARMACOLOGY

Professor — K. I. MELVILLE (Chairman).

Associate Professors — B. G. BENFEY, B. A. KOVACS.

Assistant Professors — N. R. EADE, L. E. FRANCIS, G. E. JORON, E. M. KOVACS, D. R. VARMA.

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Lecturers - F. HERR, H. E. SHISTER.

The object of the course in Pharmacology is to elucidate, as far as knowledge permits, the action of drugs, and thereby lay a sound foundation for drug therapy.

SECOND YEAR

2A. Pharmacology Lectures. The action of drugs, considered on information from experimental methods and clinical observation. Chemistry and metabolism (absorption, distribution and fate) of drugs studied are emphasized regarding underlying mechanism of action and therapeutic usage. Principles of action of various classes of drugs are covered so that the student may follow development of the subject intelligently.

Two lectures a week during the first term and three lectures a week during the second term, totalling 72 hours.

2B. Pharmacology Laboratory, Demonstrations and Conferences:

PRACTICAL LABORATORY WORK: One three-hour period weekly, totalling 45 hours, and including demonstrations and films.

Conferences: During the year four conferences of 45 minutes each and limited to six students, will be arranged. These conferences will replace the regular laboratory periods at the times specified.

THERAPEUTIC LECTURE-DEMONSTRATIONS: Twelve one-hour periods dealing with Human Pharmacology, arranged in conjunction with the Department of Medicine in the Teaching Hospitals as an introduction to Therapeutics. Clinical cases illustrating practical application of drug usage in man will be presented.

2. Toxicology Lectures. A course of ten lectures devoted to the problems of acute poisoning (occurrence, symptoms, modifying factors, diagnosis and treatment), is given during the third term of the Second year.

Dr. G. E. Joron

ELECTIVES

Suitably prepared students may undertake special research or training projects under the direction of a staff member at any time, by application to the Chairman of the Department.

Advanced courses leading to the degrees of M.Sc. or Ph.D. will be arranged to suit individual cases. See Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF PHYSIOLOGY

Joseph Morley Drake Professor — F. C. MacIntosh (Chairman). Professor — B. D. Burns.

Associate Professors — R. I. Birks, J. Q. Bliss, S. Dworkin, G. Melvill Jones, K. G. Terroux.

Assistant Professors — M. RANDIK, E. J. REININGER.

Lecturers - J. V. MILLIGAN, A. WECHSLER.

Sessional Lecturers — T. M. S. Chang, M. W. Cohen, R. F. P. Cronin, B. A. Cooper, P. Gold, J. Milic-Emili, D. Pengelly, E. Rosenberg.

REQUIRED COURSES

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Studies II

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Human Physiology.

This is an integrated course of lectures, demonstrations and laboratory work covering the major fields of human psysiology. Some emphasis is placed on the clinical implications of basic physiological principles.

Lectures: Three hours a week.

Laboratory: Four hours a week.

Introduction to Medicine.

One hour a week, from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are conducted in turn by the Departments of Anatomy, Biochemistry, and Physiology.

SECOND YEAR

2. Anatomy and Physiology of the Central Nervous System.

Two hours lectures, two hours laboratory, and one hour demonstration a week, during the second term.

This is one course, given by the Departments of Anatomy, Neurology and Neurosurgery, and Physiology.

ELECTIVE COURSES

Research in Physiology. A limited number of students may take Physiology as an elective subject in their Third year. These students will be given the opportunity of participating in departmental research projects. Summer employment in research laboratories is also available for a limited number of students.

OTHER COURSES

For other undergraduate courses in Faculty of Arts and Science, see Announcement of that Faculty.

For graduate courses, see Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF PSYCHIATRY

Professors — R. A. CLEGHORN (Chairman), A. E. MOLL, E. D. WITTKOWER.

Associate Professors — J. Aufreiter, M. K. Birmingham, H. Caplan,

B. M. CORMIER, T. E. DANCEY, P. G. EDGELL, N. B. EPSTEIN, V. A. KRAL,

H. E. LEHMANN, A. W. MACLEOD, R. B. MALMO, H. B. M. MURPHY,

E. G. Poser, M. Saffran, T. L. Sourkes, T. Statten.

Assistant Professors — J. Beaubien, C. G. Bos, H. B. Durost, B. Grad,

L. G. Hisey, B. R. Hunt, L. A. Kerwood, H. Kravitz, E. P. Lester, D. C. Levin, L. Levy, Z. J. Lipowski, J. G. Lohrenz, F. Lundell, A. Mann, S. K. Pande, D. Pivnicki, R. H. Prince, M. S. Rabinovitch, G. J. Sarwer-Foner, W. J. Stauble, M. Straker, J. S. Werry.

Lecturers — M. AMADEO, F. G. AUFREITER, F. AZIMA, T. A. BAN, S. BARZA, C. CAHILL, C. H. CAHN, J. M. CLEGHORN, J. CUMBERLAND, L. DALLAIRE, I. S. DISHER, S. Z. DUDEK, W. D. ENGELS, K. R. FERGUSON,

N. GREENBERG, G. F. HESELTINE, E. KINGSTONE, W. G. KRAUSER,

E. LEVINSON, J. MACKAY, A. S. MACPHERSON, C. F. C. MACPHERSON,

L. MERGLER, A. K. MULLER, H. F. MULLER, J. NAIMAN, Y. NERMAN,

G. PETERFY, V. M. RAKOFF, P. D. L. ROPER, J. SANGOWICZ,

A. E. SCHWARTZMAN, S. J. SHAMSIE, C. C. SMITH, L. SOLYOM, S. L. SVED, G. C. TAYLOR, W. W. WATTERS, G. WEISS, S. WILNER.

Sessional Lecturers — M. Prados, B. SILVERMAN.

Demonstrators — N. R. Aldous, H. Ast, H. A. Azim, G. G. Biely, C. Cohen, H. Davanloo, R. L. Deverteuil, J. M. Divic, K. G. Ferguson, H. Fyfe, H. Grauer, N. Greenberg, J. D. Hackett, G. Hanrahan, B. R. Harris, P. Harris, F. Kristof, J. L. Lapointe, A. Lepage, G. J. Maguire, A. F. Meszaros, G. C. Patton, H. Pitts, S. C. L. Ramesar, A. Russell, J. F. Saucier, G. Schneiderman, L. Sloman, J. M. Sendbuehler, J. J. Sigal, R. M. Smith, L. G. Stern, B. Trossman, G. Turcot, M. Turski, J. R. Unwin, B. Wainrib, H. Warnes, N. Wisebord.

REQUIRED UNDERGRADUATE COURSES

FIRST YEAR

Growth, Development and Human Relationships: A total of 16 hours, the first two being introductory lectures in psychobiology. The remaining hours of the course will include technique of child examination, diagnosis of child psychiatric states, child psychiatric problems as seen in various treatment facilities, including paediatrics outpatient clinic.

Professors Cleghorn, Statten, Ross (Paediatrics) and Staffs

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SECOND YEAR

Two courses of lectures: (a) 12 1-hour lectures on psychopathology; (b) 12 2-hour sessions on psychiatric case studies, with case presentation.

Professors Durost, Lehmann and Staff

THIRD YEAR

Six weeks block teaching to acquaint students with the examination of patients and understanding of some of the major factors involved in abnormal behaviour. Diagnostic procedures, psychotherapeutic and physical methods of treatment, will be among the aspects covered. Students will be provided with tutors on a group basis and will also have more specialized training in the areas of child psychiatry, community psychiatry and mental disorders.

Professors Cleghorn, Moll, Dancey, Durost, Statten, Silverman and Staffs

FOURTH YEAR

The teaching in this year will be largely focused on clerkship. Students will attend tutorials, ward rounds, seminars, conferences, etc., at the Allan Memorial Institute, Montreal General Hospital and Queen Mary Veterans' Hospital.

Professors Cleghorn, Moll, Dancey and Staffs

GRADUATE COURSES

DIPLOMA IN PSYCHIATRY (Dip. Psychiat.)

Minimum prerequisites for entry to the Diploma Course in Psychiatry are a degree from an approved Medical College or School and one year's rotating interneship in an approved hospital.

Applications for admission should be addressed to the Chairman, Department of Psychiatry, McGill University.

The course is of four years' duration. Credit, not amounting to more than two years, may be given for study completed at other centres prior to enrolment at McGill University. In all instances, to qualify for the Diploma, the student must spend at least two years of graduate study in the Department of Psychiatry of McGill University in Montreal.

The Diploma Course is organized to provide a comprehensive training for those preparing themselves for a career in the field of general psychiatry, and those who wish to proceed to specialized preparation in such fields as child, community, transcultural psychiatry, university teaching and research, or general hospital psychiatry with special emphasis upon psychosomatic work.

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The first two years are devoted to establishing a fundamental knowledge of clinical conditions and of general therapeutic procedures. Special emphasis is laid upon psychopathology, psychodynamics and psychotherapy, and upon gaining experience in the full range of diagnostic and therapeutic procedures now in common use in psychiatry.

The last two years of the course provide considerable choice in courses and in training locations to meet the needs of those who wish special advanced experience in the special areas referred to above.

Increasing emphasis is now being placed upon research work. Students showing aptitude and inclination may spend a year either in the laboratories of the Allan Memorial Institute, or as a member of a field group, or on one of the clinical investigative teams at work in the various clinical teaching hospitals of McGill University.

Theoretical instruction and practical experience are closely and continuously integrated and the student is expected not only to participate in, but also to learn how best to use the major teaching procedures such as group therapy discussions, seminars, didactic lectures, case conferences, journal clubs, recorded interviews, as well as the one-way screen and movies.

Extensive use is made of the tutorial method of teaching, particularly in connection with psychotherapy. In each of the four years students are assigned to a tutor who is a member of the attending staff.

In addition to the training areas within the Department of Psychiatry, post-graduate students who have completed not less than two years' training may be assigned to the research teams and groups established in connection with the other clinical centres, where they work under the direction of a senior member of the research staff. Moreover, arrangements are possible with other departments within the University for periods of special study: for instance, with the Montreal Neurological Institute for special instruction and experience in neurology, or with the University Clinic of the Department of Internal Medicine for special advanced work in the psychosomatic field. At least six months' work in a mental hospital will be required.

Students are expected to have sufficient knowledge of English to participate adequately in seminar instruction and to benefit from their clinical experience.

Before receiving the Diploma the candidate must pass an examination during the Second year and again at the end of the Fourth year.

Further information may be obtained by writing the Chairman, Department of Psychiatry, McGill University.

COURSES FOR THE DEGREE OF MASTER IN SCIENCE IN PSYCHIATRY

See Announcement of Faculty of Graduate Studies and Research.

DEPARTMENT OF RADIOLOGY

Professor — JEAN BOUCHARD (Chairman).

Associate Professors — J. S. Dunbar, R. G. Fraser, D. L. McRae, D. J. Sieniewicz.

Associate Professor of Physics — L. G. STEPHENS-NEWSHAM.

Assistant Professors - B. B. Hale, M. N. LOUGHEED, D. W. MACEWAN.

Lecturers - N. M. Brown, F. A. Grainger, F. McConnell, G. B. Skinner.

Lecturer in Physics — R. A. BEIQUE.

Demonstrators — B. St. J. Brown, R. Ethier, J. Gibson, J. J. Hazel, F. R. MacDonald, L. Rosenthal, R. E. Wilson.

Demonstrator in Physics — H. H. ZWICK.

UNDERGRADUATE COURSES

FIRST YEAR

Normal Roentgen Anatomy with special attention to functional changes in the skeletal and the several visceral systems.

In co-operation with the Department of Anatomy Professor Bouchard and Staff pract

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SECOND YEAR

Introduction to Radiology including the basic principles and application of radiation physics, radiation biology and physiology in diagnosis and therapy by means of ionizing radiations.

Professor McRae

THIRD YEAR

(a) Clinical Radiology—a systematic exploration of radiologic evidence of disease and the therapeutic applications of ionizing radiations; weekly conferences while the students are attending Internal Medicine and Surgery in the teaching hospitals.

Professors Bouchard, Sieniewicz, Fraser and Staff

(b) Elective: A tutorial period, with opportunity for the student to explore the radiological features of some special disease, entity or syndrome in one of the teaching hospitals.

Professors Bouchard, Fraser, Sieniewicz and Staff

FOURTH YEAR

Clinical Radiology continued in the programme initiated in the Third year while attending Internal Medicine and Surgery with the addition of Paediatrics.

Professors Bouchard, Sieniewicz and Dunbar and Staff

GRADUATE COURSES

(a) DIPLOMA IN RADIOLOGY (Dip. Radiol.)

Minimum prerequisites: Degree from an approved Medical Faculty, College or School; one year of general rotating interneship; appointment on the Resident Staff in Radiology of one of the teaching hospitals for this Faculty.

Required Studies: Four years of postgraduate study in Diagnostic and/or Therapeutic Radiology including Radiation Physics, Radiobiology and Pathology in the University and its teaching hospitals.

Advanced credit may be allowed by the Departmental Committee for graduate study in Radiology and/or cognate fields (Internal Medicine, Clinical Surgery or the basic Sciences) in approved institutions or teaching hospitals elsewhere, but not in excess of two of the required four years. Studies pursued in the basic sciences should be of a quality acceptable in partial fulfilment of the requirements for the degree of Master of Science.

In addition to a thorough grounding in general medical radiology, in so far as practicable arrangements may be made for the candidate to pursue studies in the special fields pertinent to his chosen division, such as the diagnostic radiologic interest in neurologic and paediatric diseases or the diagnostic and therapeutic interests of nuclear medicine in the therapeutic division.

Preparation of a scientific paper, under supervision of his tutor or as co-author, will be expected of each candidate.

Both written and oral final examinations are required.

The didactic programme of the Diploma Course and the associated clinical studies are fully accepted à propos the specialist certification by the several qualifying bodies.

Further information may be obtained from the Chairman, Department of Radiology, McGill University.

(b) MASTER OF SCIENCE (M.Sc.)

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For information relative to the Master of Science degree, see Announcement of the Faculty of Graduate Studies and Research or enquire of the Chairman of the Department.

DEPARTMENT OF SURGERY

- Professors Fraser N. Gurd (Chairman), Lloyd D. MacLean, David R. Murphy, H. Rocke Robertson.
- Associate Professors H. A. Baxter, J. W. Gerrie, J. C. Luke, S. J. Martin, H. S. Morton, H. F. Moseley, H. J. Scott, A. G. Thompson, F. M. Woolhouse.
- Assistant Professors W. M. Couper, J. C. Dickison, A. R. C. Dobell, J. A. Drummond, M. A. Entin, R. L. Estrada, J. R. Gutelius, A. F. Jones, R. C. Long, D. D. Munro, H. F. Owen, J. D. Palmer, D. W. Ruddick, E. J. Tabah.
- Lecturers A. R. Bazin, H. E. Beardmore, L. G. Hampson, I. W. D. Henderson, G. M. Karn, R. N. Lawson, W. L. Ogilvy, B. J. F. Perey, I. Shragovitch, J. A. S. Wilson.
- Demonstrators N. J. Belliveau, A. N. Freedman, F. G. Inglis G. W. Lehman, D. T. Lin, J. R. Moore, F. V. Nicolle, H. Shibata, H. D. Stevens, H. B. Williams, G. K. Wlodek, E. W. Workman, A. McB. Wright.

EXPERIMENTAL SURGERY

Professor — DONALD R. WEBSTER.

Associate Professor — S. C. SKORYNA.

Assistant Professors — G. Bounous, J. Gordon, A. H. McArdle, Edith Rosenberg.

Lecturer - S. B. DAY.

N.B. See Announcement of the Faculty of Graduate Studies and Research.

ORTHOPAEDIC SURGERY

Associate Professors — J. G. Petrie.

Assistant Professors — J. M. McIntyre, C. L. Wilson.

Lecturers — A. A. BUTLER, R. L. CRUESS, E. C. PERCY, J. L. SHUGAR, R. G. TOWNSEND.

Demonstrators — I. S. BITENC, H. F. FARFAN, F. A. H. GREENWOOD, W. E. WILSON.

UROLOGY

Associate Professors — K. G. MACKINNON, R. G. REID.

Assistant Professors — J. B. Dossetor, S. A. MacDonald, J. T. MacLean.

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Lecturers — C. A. Moore, J. Susset.

Demonstrators — I. J. De Domenico, N. Halpern, W. F. Lingard, T. Nearing, J. A. Oliver.

REQUIRED UNDERGRADUATE COURSES

SECOND YEAR

Surgical teaching begins in the Spring term (12 weeks) of the Second year. In this year special attention is directed to the instruction and training of the student in proper methods of physical examination from the surgical point of view.

- 2A. A Course of Lectures (12) is given covering the basic principles of Surgery.
- 2B. Group Classes in the wards of the Montreal General and Royal Victoria and Queen Mary Veterans' Hospitals. At these, small groups of students are instructed in methods of examination as applied to surgery and its allied specialties.

THIRD YEAR

The student comes into a more intimate contact with the patients, and in the surgical term of eight weeks is assigned cases, writes case reports, acts as dresser, and assists at operations. His clinical work is confined to one hospital — either the Montreal General Hospital or the Royal Victoria Hospital.

- 3A. Discussions concerning material covered in an assigned reading course will be held in the Montreal General and the Royal Victoria Hospitals one day each week.
- 3B. Group Ward Classes in the Montreal General and the Royal Victoria Hospitals, five times a week during the term.
- 3C. Case Reporting. Patients are allotted to students who act as reporters, dressers, and assistants at operations.

FOURTH YEAR

In the Final year the student spends eight weeks attached to the surgical service of a hospital. During four of these weeks the student is required to live in the hospital.

SURGICAL DISEASES OF CHILDREN

Some instruction in the surgical diseases of children is given during the trimester in which the students are assigned to paediatrics at the Montreal Children's Hospital as follows:

4A. Group Ward Classes three times a week throughout the trimester.

In their Final year students attend either the Shriners Hospital or the Montreal Children's Hospital for further instruction in paediatric surgery.

ORTHOPAEDIC SURGERY

Some lectures covering the basic principles of orthopaedic surgery are given in the Second year and members of the Orthopaedic Staffs of the Montreal General Hospital and Royal Victoria Hospital participate in the Second and Third year bedside clinics.

In the Final year seminars are conducted by members of the Orthopaedic Staff.

UROLOGY

In the Final year students are assigned to the Urological Services of the Montreal General Hospital and Royal Victoria Hospital for one week and, in addition to this, ward classes are held three times a week in each hospital.

GRADUATE COURSES

DIPLOMA IN UROLOGY (Dip. Urol.)

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Minimum prerequisites for entry to the Diploma Course in Urology are a degree from an approved Medical College or School, one year's rotating interneship in an approved hospital, and two years of training in general surgery or divided between general surgery and pathology or some other basic science.

Applications for admission should be addressed to the Chairman, Department of Surgery, McGill University.

The course is of three years' duration. The three years are spent as a member of the resident staff in the Department of Urology of the McGill University Teaching Hospitals. Throughout the three-year period, during the academic sessions, lectures or seminars are held one night each week. Through the co-operation of the Department of Medicine each candidate spends four months in the Renal Laboratory.

No examination is held. The Diploma is recommended on the satisfactory completion of the three year training programme.

For other graduate courses in Surgery, see Announcement of the Faculty of Graduate Studies and Research.

BUILDINGS

THE McINTYRE MEDICAL SCIENCES BUILDING

This building, to be occupied in July 1965, will contain the Offices of Administration, the Medical Library, the Osler Library and Wellcome Camera, the Departments of Biochemistry, Pharmacology and Physiology and a number of special research units.

THE STRATHCONA MEDICAL BUILDING

This building contains the Department of Anatomy, the Department of Investigative Medicine and the Faculty of Dentistry.

THE PATHOLOGICAL INSTITUTE

This building was opened for use in October, 1924. It is situated on the northeast corner of University Street and Pine Avenue adjacent to the Medical Building, the Montreal Neurological Institute and the Royal Victoria Hospital. It accommodates the Departments of Bacteriology and Pathology and contains a pathological

Museum and two departmental Libraries. There are extensive facilities for undergraduate teaching, postgraduate training and research, and for pathological, anatomical and microbiological diagnosis.

THE MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. The construction of the McConnell Wing, opened in 1953, approximately doubled both the clinical and laboratory space. Unsurpassed in its equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neurosurgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine and the Montreal Neurological Hospital for the care of patients with organic diseases of the nervous system. In addition to wards, operating rooms, and laboratories for treatment and study of diseases of the nervous system, the building provides facilities for graduate study and research in the related fields of basic science.

THE ALLAN MEMORIAL INSTITUTE

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building was reconstructed to permit of the establishment of a fifty-bed unit, together with extensive research laboratories, and was officially opened July 12, 1944.

In 1946 the first day hospital in the world was opened at the Institute and in

1953 a fifty-bed wing was added.

In 1963 a research and training building was added by McGill University thus providing one of the most extensive and modern research areas.

Both undergraduate and postgraduate teaching are carried on at the Institute.

THE DONNER BUILDING

The Donner Building for Medical Research, adjacent to the Medical Building, was completed in September 1948. Its erection was made possible through the generosity of William H. Donner of Philadelphia, the late founder of the International Cancer Research Foundation, who provided the funds necessary for the construction of a building entirely devoted to medical research.

This building houses the Maxwell Lauterman Laboratories for Experimental

Surgery and laboratories for Dentistry.

HOSPITALS

Few medical schools on this continent offer better facilities than those enjoyed by the students of McGill University. Ideal academic and topographical conditions exist for the teaching of scientific and practical medicine.

The Medical Faculty is on the University Campus, and is thus in juxtaposition to the scientific laboratories of the University and to the largest teaching hospital in the city. Co-operation with the scientific and cultural departments of the University, as well as with clinical facilities, is thereby made easy.

The following hospitals and institutions are at the disposal of the teaching staff and students for clinical and pathological study:

Royal Victoria Hospital Montreal General Hospital Montreal Children's Hospital
Queen Mary Veterans' Hospital
Alexandra Hospital for Infectious Diseases
Verdun Protestant Hospital
Royal Edward Laurentian Hospital
Royal Victoria Montreal Maternity Hospital
Montreal Neurological Hospital

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical Faculty. These affiliated hospitals contain over 6,000 beds.

The Royal Victoria Hospital, in juxtaposition to the University buildings, comprises the following units under one administration:

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- 2. The New Medical Wing;
- 3. The New Surgical Wing;
- 4. The Ross Memorial Pavilion for private patients;
- 5. The Women's Pavilion Royal Victoria-Montreal Maternity;
- 6. The Allan Memorial Institute.

The total bed complement is 1,018, with 115 bassinets. Admissions total over 23,000 and confinements are in excess of 3,800 a year. There are more than 100,000 visits annually to the Outpatient Department. The University Clinic was established in 1924 and has facilities for both clinical laboratory work and research.

Post-mortems total 60 per cent of the deaths.

The number of resident physicians is 162.

The Montreal Neurological Hospital, consisting of the hospital activities of the Montreal Neurological Institute, is situated across the street from the Royal Victoria Hospital and constitutes the Department of Neurology and Neurosurgery for this hospital. There are 136 beds, including a paediatric unit, for the care and investigation of patients with organic diseases of the nervous system. There are approximately 2500 admissions yearly, about half to the Neurological Services and half to the Neurosurgical Services. Approximately 1100 surgical procedures are carried out each year.

The Royal Victoria-Montreal Maternity Pavilion, with 197 beds for obstetrical and gynaecological cases. In this institution there are 117 teaching beds and an organized outpatient service which is of the greatest benefit to the undergraduate student. In a typical year, the obstetrical service cares for over 3,800 confinements in the Hospital. In the gynaecological section, over 2,800 cases are admitted during the year.

There are 22 resident physicians.

The Montreal General Hospital has a bed complement of 750 for the treatment of acute diseases. In a typical year, there are approximately 18,000 admissions and 150,000 consultations in the Outpatient Department. The resident and interne staff numbers 130.

The "Montreal General" was founded in 1821; two smaller buildings downtown had preceded it in 1816 and 1819. In age, therefore, it is not the oldest hospital in Canada, but its record in clinical teaching is one of the longest on the North American continent.

From the time the Hospital was opened, its staff began to arrange for students and, in 1823, they opened the first Medical School in Canada, the Montreal Medical Institution, with 25 students. Teaching was carried on partly at the Hospital. It was this School which agreed to form the Medical Faculty of McGill University in 1829; the beginning of a long and intimate association between the Hospital and the University.

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The present buildings on Cedar Avenue were occupied in 1955.

The Montreal Children's Hospital has 354 beds (65% public beds), and, in a typical year, admits 12,000 patients. The attendance at its outdoor department totals over 125,000 clinic visits. This hospital admits all classes of cases of disease in children except pulmonary tuberculosis and the communicable diseases, and enables students to get a broad concept of paediatrics.

There are 236 autopsies in a typical year, representing 90.1% of all deaths. The number of resident physicians is 100.

Queen Mary Veterans' Hospital has 700 active treatment beds and 1,200 beds at Ste. Anne's Hospital, Ste. Anne de Bellevue for rehabilitation, geriatrics and psychiatry.

The hospital was taken over by the Department of Veterans Affairs in August 1946, with affiliations of consulting, attending and resident staff which were set up in collaboration with the Medical Schools of McGill University and l'Université de Montréal.

Admissions are over 7,500 a year and include not only veterans, but serving members of National Defence, Merchant Navy, Immigration, R.C.M.P., personnel returning from the Tropics, and, groups from other Government Departments.

The outpatient attendance is approximately 100,000 annually and the post-mortem rate is about 85%.

Active treatment and research are maintained in all the usual fields and, in addition there are special departments: Paraplegics, Plastic Reconstruction and Prosthetics (construction, alterations and fitting of artificial limbs).

The resident physician appointments number 74 and 6 of these rotate through Ste. Anne's Hospital.

All specialties, except Obstetrics and Paediatrics, are covered.

The Alexandra Hospital for Infectious Diseases, opened in 1906, with modern wards, cubicles and equipment is regularly attended by students who receive demonstrations on the essential features of all the common acute infectious diseases and tuberculosis.

There are three wards for the treatment of tuberculosis in children and tuberculous meningitis in adults and children. There are 150 beds (including 50 for tuberculosis) and the average yearly admissions range between 800 and 1,000.

There is a resident senior physician and two junior rotating physicians.

The Verdun Protestant Hospital was opened in 1890. It is a psychiatric hospital for the treatment of emotional and mental diseases and with its 1,850 beds serves mainly the English-speaking communities of the Province of Quebec. There are also facilities for adolescent behaviour problems and the mentally retarded.

The hospital is directed by a private Board of Governors but admits non-paying patients on the basis of a contract with the Provincial Government. There are approximately 1,600 admissions per year and in the After Care Clinic about 2,000 patients are seen during the year.

The medical staff consists of 23 psychiatrists, 3 physicians and 21 psychiatric residents who are registered with the McGill Diploma Course in post-graduate psychiatry; some 20 consultants in the various medical specialties also visit the hospital regularly.

Third year undergraduate medical students of McGill University spend three weeks on the wards of the hospital as part of their psychiatric teaching. The hospital provides clinical instruction and training of nurses, nursing assistants, occupational therapists, psychologists and social workers, and field work experience for post-graduate training of professional personnel. An active research programme is carried on in the basic and clinical aspects of human behaviour.

The Royal Edward Laurentian Hospital has as objectives the study, prevention and treatment of tuberculosis and diseases of the chest. It includes two Divisions—one in Montreal, near the University, and the other in Ste. Agathe in the Laurentian Mountains.

The Montreal Division consists of an out-patient department and in-patient treatment units. The out-patient department includes an anti-tuberculosis dispensary and a chest clinic. The hospital contains a 24-bed tuberculosis unit and a 100-bed non-tuberculous chest condition unit. This Division's facilities include operating rooms and laboratories. It maintains an active research programme. Residency appointments number 10.

The Laurentian Division is a sanatorium. It has 144 beds, all of which are for persons with pulmonary tuberculosis. Residency appointments number 2.

THE MEDICAL LIBRARY

Medical Librarian — RODOLPHE C. LAVERGNE.

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The chief value of the Library is in its periodical collection. About 2,000 journals are received currently in almost all languages. The book collection is especially noteworthy in the ophthalmological section due in large measure to many gifts from the late Dr. Casey A. Wood.

The Library is for members of the teaching staff and students of the Faculty and of the whole University, and for research workers and doctors in the city. An extensive interlibrary loan service throughout the country is maintained.

The Library is open during the academic session from Monday to Friday, 9 a.m. to 10 p.m. September to March; 9 a.m. to 11 p.m. April to mid-June; Saturday 9 a.m. to 5 p.m. After June 15 the hours are 9 a.m. to 5 p.m. Monday to Friday, closed Saturday.

There are also small libraries and collections of books and journals located in several Departments of the Faculty.

THE OSLER LIBRARY WELLCOME CAMERA

This special library of the history of medicine and science collected by Sir William Osler with a view to its educational value, was bequeathed by him to his Alma Mater. The collection is rich in early editions of the older literature, as well as in modern historical works.

The Osler Library was moved in toto from the Strathcona Medical Building and has been reconstructed on the first floor of the two-storied wing of the McIntyre Medical Sciences Building devoted to the history of medicine. Osler's original collection of 8,000 books is to be found in this room. Offices and ample reading areas are also on this floor and seminar rooms, stack space and additional reading areas are located on the second floor of this wing.

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Over 12,500 volumes have now been added to the original collection and are shelved in the Wellcome Camera, a large reading room with open stacks, adjacent to the Osler Library and the main Reading Room of the Medical Library.

The Osler Library is open daily, except Sunday, for the use of undergraduates and all who are interested. The books belonging to the original collection may not be borrowed but this restriction does not apply to the current works on the history and biography of medicine and sciences which are constantly being added to the library.

Entrance to the Osler Library — Wellcome Camera wing is reached by entering the Main Reading Room of the Medical Library on the third floor of the building.

MEDICAL SOCIETIES

McGILL MEDICAL UNDERGRADUATE SOCIETY

The Society is composed of the registered students of the faculty. Its purpose is:

- (1) To transact all matters of business connected with the undergraduate body;
- (2) To stimulate interest along medical lines;
- (3) To assist students to express themselves in public with facility;
- (4) To provide an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.
- (5) To organize, during the course of the school year certain outside activities such as the annual Medical Banquet and Ball.

Monthly meetings are held at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter, and three Councillors (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

The society also maintains the Students' Reading Room. English and American journals, as well as the leading daily newspapers are kept on file.

ALPHA OMEGA ALPHA HONOUR MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate, and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the Third and Fourth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

OSLER SOCIETY

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are reall the years world. The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes men from each class in the faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.

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Faculty of Medicine

Medical Library,
McGill University,
3655 Drummond St.,
Montreal 2, P. Q.,
CANADA

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McGill University FACULTY OF MEDICINE

ADMINISTRATIVE OFFICERS

- H. ROCKE ROBERTSON, B.Sc., M.D., C.M., D.C.L. (Bishop's), LL.D. (Man., Tor., Vict. & Glas.), D.Sc. (U.B.C.), D. de l'U. (Montr.), F.R.C.S. (Edin.), F.R.C.S.(C), F.A.C.S. Principal and Vive-Chancellor H. N. FIELDHOUSE, B.A. (Oxon.), M.A. (Sheff.), F.R.S.C., F.I.A.L. (Retires August 31, 1966) Vice-Principal (Academic) RONALD V. CHRISTIE, M.D., Ch.B. (Edin.), D.Sc. (Lond.), Sc.D. (Dublin), F.R.C.P., F.A.C.P., F.R.C.P.(C) EDWARD H. BENSLEY, M.B.E., B.A., M.D. (Tor.), D.Sc. (Acad.), F.R.C.P.(C), F.C.I.C., F.A.C.P. Vice Dean of the Faculty S. M. BANFILL, M.B.E., B.A., M.D., C.M. Associate Dean (Admissions) DAVID V. BATES, M.D. (Cantab.), M.R.C.P. (Lond.) Associate Dean (Graduate Studies and Research) G. E. JORON, B.A., M.D., C.M., F.A.C.P., Dip. (Int. Med.) Assistant Dean (Professional Relations) JOHN G. HAMPSON, B.Com., C.A. Executive Secretary of the Faculty G. A. GRIMSON, B.Com. Executive Assistant to the Principal Secretary of the Board of Governors
- J. H. HOLTON, B.Com. (Tor.) ALLAN C. McCOLL, D.F.C., B.Com., C.A. Comptroller COLIN M. McDOUGALL, D.S.O., B.A. Registrar

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TUTORS 1965-1966

DRS. M. ARONOVITCH, C. M. BALLEM, D. V. BATES, P. H. BEAUDRY, J. E. BLUNDELL, F. N. BOURNE, J. L. BRANDT, H. F. BRICKMAN, P. B. BROMAGE, B. ST. J. BROWN, L. A. CASEWELL, R. F. P. CRONIN, J. H. DARRAGH, H. T. DAVENPORT, J. B. Dossetor, K. N. Drummond, J. S. Dunbar, J. Elder, W. D. Engels, M. A. ENTIN, N. B. EPSTEIN W. H. FEINDEL, R. G. FRASER, S. O. FREEDMAN, J. E. Gibbons, P. Gloor, J. R. Gutelius, I. W. D. Henderson, John S. Henry, W. H. P. HILL, D. A. HILLMAN, E. S. HILLMAN, R. HOBKIRK, J. L. HUTCHISON, F. G. Inglis, N. Kalant, G. M. Karn, A. Knight, B. A. Levitan, D. W. MacEwan, D. J. MacIntosh, L. D. MacLean, E. McGarry, F. L. McNaughton. D. L. McRae, J. F. Meakins, D. D. Munro, J. A. Oliver, H. F. Owen, J. A. P. Paré, B. J. F. Perey, E. A. S. Reid, J. P. Robb, A. S. Ross, H. J. Scott, A. SHERWIN, J. SIENIEWICZ, T. L. SOURKES, J. B. I. SUTHERLAND, J. G. STRATFORD, D. STUBINGTON, L. S. WOLFE.

Special Announcements are available for the School of Physical and Occupational Therapy, and the School for Graduate Nurses.

Details of Scholarships, Bursaries, Prizes, Medals, and Loan Funds are given in the Scholarships Announcement, which may be obtained from the Registrar's

Administrative Offices of The Faculty of Medicine are in The McIntyre Medical Sciences Building, 3655 Drummond St., Montreal 2.

FACULTY OF MEDICINE

The one hundred and thirty-fourth session of the Faculty will open on September 7, 1966 for students of all years.

Students may enter the Faculty of Medicine in one of two ways. A limited number will be admitted from high school to the Combined Course in Science and Medicine. Most will be admitted from college to the four-year medical course.

A. COMBINED COURSE IN SCIENCE AND MEDICINE

REQUIREMENTS FOR ENTRANCE

Students of high calibre and first-rate academic attainment will be admitted to the First year of this programme after successfully completing Junior Matriculation. They will be enrolled directly in the Faculty of Medicine and at the same time in the Faculty of Arts and Science. In exceptional circumstances students will be admitted to the Second year of the seven-year course when they have obtained high standing in Senior Matriculation. A joint committee of the two Faculties concerned will select the successful candidates.

DESCRIPTION OF COURSE

Duration: Seven years from Junior Matriculation, six years from Senior Matriculation.

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Degrees: B.Sc. (after 5 years), M.D., C.M. (after 7 years).

First year: Chemistry, Physics, Mathematics, Biology and two electives.

Second year: Organic Chemistry and five electives.

Third year: Five electives.

Fourth, Fifth, Sixth and Seventh years: Four years of standard medical curriculum.

One course in English, not necessarily a First year course, will be required at some time during the first four years.

Elective courses must be selected so as to meet the requirements for the degree of B.Sc.

APPLICATION FOR ADMISSION

Application should be made by March 1, 1967 to the Admissions Office of McGill University, Montreal 2, Canada. Application forms may be obtained from the Registrar's Office or the Admissions Office.

B. FOUR-YEAR COURSE IN MEDICINE

REQUIREMENTS FOR ENTRANCE

 (a) Total Academic Credits: The minimum requirement for admission to the medical course is the satisfactory completion of three full years of study in a recognized college or Faculty of Arts and Science in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. Preference is given to those who have completed the work leading to a B.A. or B.Sc. degree. (b) Scientific Requirements: In the scientific branches, certain subjects are specifically required:

Chemistry, two full courses, including General Chemistry and Organic Chemistry, with laboratory work.

Physics, one year with laboratory work.

Biology, or Zoology, one year with laboratory work. (Of this, a half year must consist of Zoology.)

(c) Cultural Requirements: These must be selected in such a way as to be in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. These would commonly include credits in English Literature and Composition and in Mathematics. It is advisable for each applicant to present evidence of such preparation.

(d) All candidates for admission to the Medical Faculty are required to take the Medical College Admission Test conducted by the Psychological Corporation (304 East 45th Street, New York, N.Y. 10017) or furnish an explanation of why they are unable to do so. This test should be taken not later than the spring of the Third year of the college course.

2. In selecting courses, in addition to the specific requirements listed above, an intending medical student should plan his pre-medical course as a whole, and in accordance with a definite educational objective. Emphasis should be laid on the broad educational value and the intellectual training afforded, rather than on the factual content of such pre-medical curricula; the student is therefore advised to plan his course in such a way as to provide more than elementary training in some definite field of learning which appeals to him; this major field may be selected from the Natural or the Social Sciences or the Humanities. Certain subjects which though not essential have been found valuable in medical study, and which may be included as electives if the curriculum in the major field permits, are Psychology, Sociology, and Genetics.

In general, students are advised not to anticipate medical school courses in Physiology, Histology, Bacteriology, and Biochemistry at the expense of a fundamental training as outlined above.

On the other hand, for students who desire a preparation in excess of the minimum requirements, a considerable degree of specialization in the sciences, such as an Honours degree, or a Master's degree, in Physics, Chemistry, Biochemistry, Biology, Physiology, or Bacteriology, may prove to be desirable and advantageous.

The students' attention is called to the memorandum printed in the Announcement of the Faculty of Arts and Science for the guidance of those who wish to enter Medicine.

Candidates for admission shall furnish evidence that they have satisfied the matriculation requirements of the licensing body in the region where they wish to practise. This provision applies to Canadian candidates only.

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A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official Statement of his preliminary education and of the medical course he has followed and the standing he has obtained. This should be accompanied by a calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

The equivalent courses of study in schools recognized by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the recognized school, but the

student may be required to pass such examinations, individual or comprehensive, as may be required by the Faculty.

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Associate Dean (Admissions), Room 609, McIntyre Medical Sciences Building, or from the Registrar's Office.

As the number of students in each class is limited, application should be made early and in any case not later than January 1. Each application must be accompanied by a non-returnable fee of \$5.00 in the form of a cheque or money order payable to McGill University.

A fee of \$50.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Associate Dean (Admissions), when possible, is advisable.

REGISTRATION

Students in the Faculty of Medicine will register at the Registrar's Office in Dawson Hall on Friday, September 2 or Tuesday, September 6, 1966. Those who register late will be required to pay a late registration fee of \$5.00 if they register during the first week of the session and \$10.00 if they register during the second. The fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

FEES

The University reserves the right to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions described in the General Announcement.

UNIVERSITY FEES

1.	COMBINED COURSE IN SCIENCE AND MEDICINE First and Second Years Third to Sixth Years Seventh Year	\$700.00 800.00 800.00
2.	Four-Year Course in Medicine First to Third Years Fourth Year	800.00 800.00
3.	REPEATING STUDENTS Students repeating a year pay full fees.	
4.	AD EUNDEM FEE Students entering any year above the First, pay a special ad eundem fee of	\$10.00

GENERAL REGULATIONS

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1. Students entering the University for the first time are required to pay their fees either by mail or in person at the Accounting Office.

The first instalment is due within 10 days after registration, the second instalment before January 16, 1967. No invoice will be sent.

A late payment fee of \$5.00 is charged for payment after the specified dates.

2. Students who have completed one or more years and intend to register in the succeeding year must pay one half of the total sessional fee by mail or in person to the Accounting Office before September 1, 1966, otherwise they will not be permitted to register. Instructions for paying fees in advance will be mailed to all upper year students, either with their Reports of Sessional Standing or a short time later. Students who have been notified by the University of the award of a scholarship, bursary or student loan, and who require this for payment of the first instalment of fees, must obtain from the Student Aid Office, McGill University, a Permit to Delay Payment of Fees.

The second instalment is due January 16, 1967. A late payment fee of \$5.00 is charged for payment after the specified dates. No invoice will be sent.

3. Students registering late must pay their fees at the time of registration, failing which they become subject to the late payment fee and the provisions of the following paragraph:

As soon as possible after the prescribed dates for the payment of fees the Chief Accountant will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

All fees are payable in Canadian currency.

For further information and for a list of special fees see the General Announcement.

MICROSCOPES

Each student on beginning his studies is required to provide himself with a first-class microscope for laboratory and private study throughout his course. The Medical Faculty has examined a large number of student monocular microscopes and has agreed upon specifications which it regards as best suited to student requirements. Copies of these specifications are circulated by the Dean's Office to all students entering the Faculty of Medicine.

The University does not rent microscopes to medical students.

BOARD AND RESIDENCE

For details of board and residence and an estimate of expenses, see the General Announcement.

HEALTH SERVICE

For details of the Health Service and Medical Examinations see the Students' Information Pamphlet.

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The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including

(a) four years of medical study in the University leading to

the degree of M.D., C.M.; and

(b) one year of interneship in an approved hospital.

While the Faculty Administration exercises a general supervision of arrangements for interneships, the Faculty of Medicine assumes no responsibility to provide an interneship for any student.

A certificate that his medical education is completed and that he is eligible to sit for the examination of a licensing board shall not be issued to any graduate until the University is in possession of satisfactory evidence that he has completed the full requirements.

The sessions usually begin the first Wednesday after the first Monday in September (Labour Day). In the first three years, the session continues until the middle of June, but the final year is completed in time for the degree of M.D.,C.M. to be awarded at the regular University Convocation at the end of May.

The arrangement of the principal subjects of instruction is usually as follows:

FIRST SESSION

Anatomy (including Embryology), Histology, Physiology, Biochemistry, Child Development and Human Relations, Introduction to Medicine, General Pathology, History of Medicine.

SECOND SESSION

Central Nervous System (Anatomy, Neuroanatomy, Neurophysiology, Psychology), Medical Microbiology, Laboratory Diagnosis, Medicine, Surgery, Obstetrics, Epidemiology and Health, Pharmacology, Psychiatry, Special Pathology, Radiology, History of Medicine.

THIRD SESSION

Epidemiology and Health, Medicine, Surgery, Obstetrics and Gynaecology, Medical Jurisprudence, Neurology and Neurosurgery, Paediatrics, Psychiatry, Ophthalmology, Oto-laryngology, Radiology, Anaesthesia, Electives.

FOURTH SESSION

Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Paediatrics, Ophthalmology, Oto-laryngology, Radiology, Therapeutics.

EXAMINATIONS

The examinations taken within the Medical Faculty are divided into two groups, namely major examinations and minor examinations. Major examinations are the final examinations in Anatomy (Embryology), Histology, Physiology, Biochemistry, Pharmacology, Medical Microbiology, Special Pathology, Epidemiology and Health (Third year), Paediatrics, Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Central Nervous System.

The examinations in Medicine, Surgery, Obstetrics and Gynaecology, and Psychiatry at the conclusion of the Third Session are ranked as major examinations, even though they are not the final examinations in these subjects.

Minor examinations include the final examinations in General Pathology, Laboratory Diagnosis and examinations preliminary to the final major examinations.

A student who fails in any major examination will be required, before he sits a supplemental examination, to present to the Dean's office from the senior professor of the Department concerned a certificate that the student has taken sufficient extra tuition as would indicate that he has reviewed the subject and is a suitable candidate for the supplemental examination.

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There is a strict difference between the importance of a major and a minor examination. If a student fails in the supplemental of a major examination, there are definite restrictions as shown below, but if he fails in the supplemental of a minor examination he is permitted to carry conditions as shown below.

A student is not allowed supplementals in three major examinations in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student is not allowed supplementals in two major and one minor examination in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

Unless the Promotion Committee finds special mitigating circumstances, a failure in the supplemental of a major examination will require the student to repeat his course (repeat his year), and no student may repeat such a course more than once. Any student who fails in the supplementals of two major examinations in any one year shall be required to retire without the privilege of further supplementals.

A student who fails in the supplementals of three or more minor examinations in any one session must repeat this session or may be asked to retire, as may be decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

A student who fails in the supplementals of not more than two minor examinations may proceed with other subjects in the following year, carrying such subjects as conditions, but may not sit any subsequent major examinations until the conditions have been removed, nor may he carry more than two conditions at one time.

All conditions must be removed by the end of the first term (November) in each session when additional supplemental examinations will be held. Failure in any of these will require the student to revert to his previous year and to repeat the courses of the Winter and Spring terms.

A student in his final year may take a supplemental examination in one subject only, but must present a certificate from the senior professor of the Department concerned that he has taken extra tuition in this subject in one of the teaching hospitals of the McGill Faculty of Medicine. If he should fail in this supplemental examination, he must repeat the year of study and pass all the major examinations at the completion of the session.

A student in his final year who fails in two subjects will not be permitted supplementals but must repeat the year or retire, as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student will not be allowed to repeat a year more than once nor may he repeat a subsequent year if such repetition has been due to failure in examinations, except on special recommendation of the Promotion Committee, acting upon the motion of the representatives on the committee of the Department concerned.

A student who has been permitted to repeat his year shall be required to make a C+grade, which for this purpose is considered to be 65%, or he will not be permitted to continue his course.

Examinations, tests, reviews, etc. will ordinarily be held during the session only at the end of the twelve week terms. It is understood that such examinations,

tests or reviews are conducted for the benefit of the student in order that he may have experience in the requirements of the sessional examinations, and further, that he and his teachers may know he is progressing in his studies. In the Fourth year final examinations will be held at the end of each rotation.

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There shall be two Promotion Committees. The First Committee shall consist of representatives of the subjects of Anatomy, Biochemistry, Histology, Physiology, Pharmacology, Medical Microbiology and Pathology appointed by the Dean, and the Dean ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in their First and Second years.

The Second Committee shall consist of representatives of the Departments of Epidemiology and Health, Medicine, Surgery, Obstetrics and Gynaecology, Paediatrics and Psychiatry appointed by the Dean, and the Dean ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in their Third and Fourth years.

All results of examinations will be given out by the Dean's office, after they have been passed upon by the Promotion Committee. It is an absolute rule that no examination results shall be communicated by any other channel.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent. There can be no appeal from this decision.

GRADING

At the conclusion of each course, students are graded in five groups as follows:

A = Excellent
B = Good
C = Fair
D = Doubtful

In reporting the grading, the names of those students who attain "A" standing are arranged in order of merit; in all other grades the arrangement is alphabetical.

By regulation of the Faculty of Medicine, a student is not permitted more than one "D" grade in the examinations of a single year. In the presence of other "D" or "E" grades all "D" grades are automatically converted into failures by the Promotion Committees.

The grade assigned to a student is based primarily upon the results of the Final Examination, but the instructor also takes into account the record of the work done throughout the course.

The quality of the written language used by a candidate is taken into account in determining his standing in all examinations.

REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

- 1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.
- 2. He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than nine months each in this University or in some other university, college or school of Medicine, approved by this University.
- 3. No one is permitted to become a candidate for the degree who has not attended at least two full sessions at this University.
- 4. Every candidate for the degree must have passed all the required examinations in the subjects comprising the Medical course.
- 5. He must have attended the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one

hundred beds) approved by this University and the practice of the Montreal Children's Hospital; and must have acted as clinical clerk in Medicine, Surgery, Paediatrics and Psychiatry and have fully reported upon the prescribed number of cases.

- 6. He must also have attended the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.
- 7. Every candidate must also have administered anaesthetics, under direction, at least six times, and have assisted at not less than six autopsies.

REQUIREMENTS FOR LICENCE

Candidates accepted for admission are reminded that it is their personal responsibility to ensure that they fulfil all the licensing requirements of the country in which they intend to practise medicine. A University degree does not confer the right to practise. In each province of Canada, in each one of the United States and in all other countries the authority to license is vested in a licensing body which has its own special laws and requirements. In many cases a special standard of general education is insisted upon before beginning the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained.

Candidates accepted for admission should therefore communicate as soon as possible with the licensing body of the country in which they intend to practise and obtain from that licensing body the necessary instructions.

N.B. — In order that disappointment and loss of time may be avoided, the University requires Canadian students to register with the licensing body of their home province before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:

QUEBEC — Dr. A. Roy, 1896 Dorchester Blvd. West, Montreal 25, P.Q. Ontario — Dr. J. C. C. Dawson, 64 Prince Arthur Ave., Toronto 5, Ont. New Brunswick — Dr. John R. Nugent, 112 Carleton St., Saint John, N.B.

Nova Scotia — Dr. M. R. Macdonald, Victoria General Hospital, Halifax, N.S. PRINCE EDWARD ISLAND — Dr. R. G. Lea, 170 Fitzroy St., Charlottetown, P.E.I.

Manitoba — Dr. M. T. Macfarland, 201 Kennedy St., Winnipeg 1, Man. Alberta — Dr. W. Bramley-Moore, 9901 - 108th Street, Edmonton, Alta.

SASKATCHEWAN — Dr. G. W. Peacock, 932 Spadina Crescent E., Saskatoon, Sask.

BRITISH COLUMBIA — Dr. Lynn Gunn, 1807 West 10th Avenue, Vancouver 9, B.C.

Newfoundland - Dr. Cluny Macpherson, P.O. Box 5279, St. John's, Nfld.

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In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board to the effect that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, 77 Metcalfe Street, Ottawa 4, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance at lectures, practical work, and clinics are also accepted by the various examining boards in Great Britain.

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Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London,

W.1, England.

GRADUATE COURSES LEADING TO DIPLOMAS IN THE CLINICAL DEPARTMENTS OF THE FACULTY OF MEDICINE

The Faculty of Medicine conducts graduate courses leading to Diplomas in Anaesthesia, Neurology and Neurosurgery, Psychiatry, Radiology and Urology.

ENQUIRIES

Initial enquiries and enquiries of a general nature should be addressed to the Associate Dean (Graduate Studies and Research) of the Faculty of Medicine.

Enquiries about the details of individual Diploma Courses should be addressed to the Chairman of the Department concerned.

REQUIREMENTS FOR ENTRANCE

The minimum requirements for entrance to a Diploma Course are (a) a degree from an approved Medical College or School and (b) at least one year's interneship. Details of the requirements are set forth under the individual Diplomas.

Credit may be given for study completed elsewhere than at McGill University, but to qualify for a Diploma, the student must spend at least two years of graduate study and training in a clinical department of the Faculty of Medicine of McGill University.

APPLICATION FOR ADMISSION

Application forms may be obtained from the Executive Secretary of the Faculty of Medicine or the Chairman of the Department concerned. The completed form should be submitted by the candidate to the Chairman of the appropriate Department. If the application is approved by the Department, this form is then sent to the Dean of the Faculty of Medicine for his approval.

FEES

There is a registration fee of fifteen dollars to be paid each year on registration except when the student is enrolled in the Faculty of Graduate Studies and Research.

Certain of the Diploma Courses require the payment of fees in addition to the annual registration fee. Detailed information concerning these fees may be obtained by writing to the Chairman of the Department concerned.

REGISTRATION

The various Diploma Courses in the clinical departments of the Faculty of Medicine lead to the award of diplomas by McGill University. Every student enrolled in such a course must therefore be registered as a student of McGill University.

On beginning the actual course of study leading to a Diploma the candidate must complete three copies of the Sessional Application Form. These are obtainable from the Secretary of the Faculty of Medicine or the Chairman of the Depart-

ment concerned. These forms, completed by the student in triplicate, are submitted to the Chairman of the Department for his signature and then to the Dean of the Faculty of Medicine for his signature. One of the three forms will be retained by the Dean and the other two are to be taken by the candidate to the office of the Registrar of McGill University. Following registration at the Registrar's Office the candidate must proceed to the Cashier's Department to pay such fees as may be required. After registration and payment of fees have been completed the student returns one copy of the form to the Chairman of the Department and keeps the other.

These procedures of completion of the Sessional Application Form in triplicate, with signing by the Chairman of the Department and the Dean, registration at the office of the Registrar, and payment of fees must be carried out *annually* at the beginning of each year of the Diploma Course. If the student has been posted to an out-of-town centre for the session involved, registration forms will be mailed to him by the Registrar, on request.

The final date for registration is October 1. If a candidate is permitted to begin a Diploma Course later than October 1, registration must be carried out within one month of the commencement of the course.

If, during his academic year, the student is enrolled in the Faculty of Graduate Studies and Research, he must complete the procedures described above in addition to those required by the Faculty of Graduate Studies and Research, except that a registration fee for the Diploma Course is not required for that particular year.

It is the responsibility of the student to ensure that the Sessional Application Forms are completed and that registration and payment of fees are carried out.

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In the case of a student who is not proceeding to an M.Sc. or Ph.D., but for whom the committee in charge, on the recommendation of the tutor, considers it important that the student should spend some time in study in one of the medical sciences, individual arrangements will be made by the Chairman of the Department, either directly or through the student's tutor with the Chairman of the Medical Science concerned. Such students will be enrolled in the Faculty of Graduate Studies and Research and will be governed by the rules and regulations of this Faculty in regard to fees, etc., applicable to partial students.

COURSES OF INSTRUCTION

DEPARTMENT OF ANAESTHESIA

Professor — R. G. B. GILBERT (Chairman).

Wellcome Research Professor — K. KRNJEVIC.

Associate Professors — G. Fred Brindle, H. T. Davenport, A. B. Noble. Assistant Professors — P. R. Bromage, W. G. Cullen, G. Ellison,

R. FERGUSON, A. GALINDO, S. KOVACHEV, D. J. POWER, W. E. B. SCOTT, J. B. I. SUTHERLAND.

Lecturers — H. F. Don, E. M. Dunkley, A. Joyal, A. Matzko, A. W. McDonald, D. J. L. McWatt, P. Otton, A. Petrasek,

J. R. Rosales, C. A. Sheridan, F. R. H. Wrigley, J. E. Wynands.

Demonstrators — H. Bowman, W. Farley, D. A. Firth, D. Gillies, S. W. Larking, A. N. Mungall, P. Quan, F. A. Robillard, D. A. E. Shephard.

UNDERGRADUATE COURSES

A student in Medicine, before reaching that part of the curriculum which deals with Anaesthesia, will have acquired during the earlier years at the University some incomplete, but important knowledge of Anaesthesia while taking courses in Anatomy, Physiology, Biochemistry, Pharmacology and Pathology.

In the Third year he joins a small group which attends a series of tutorial classes taught by a senior anaesthetist. At these sessions, he will be instructed in the physio-pathology of patients undergoing anaesthesia and surgery, the basic properties of anaesthetic drugs and the principles underlying anaesthetic techniques, which will serve as a background for the administration of anaesthesia.

In the Fourth year a period of one week is spent in the operating room. The student is assigned to an anaesthetist each morning from 8-12 while in the afternoon from 1:30 - 2:30 he attends a didactic session concerning the procedures he has witnessed.

Also in this year the one month "Period of Election" may voluntarily be spent in the Department of Anaesthesia of one of the University hospitals. This presents opportunity for additional supervised clinical work in the operating room, the recovery room and the intensive care unit.

GRADUATE AND CONTINUING EDUCATION COURSES

Diploma in Anaesthesia (Dip. Anaes.)

Minimum prerequisites for entry to the Diploma Course in Anaesthesia are a degree from an approved Medical College or School and one year's rotating interneship in an approved hospital. Foreign students may be subject to further requirements, depending on circumstances.

Applications for admission should be addressed to the Chairman, Department of Anaesthesia, McGill University.

The course is of three years duration. Up to one year of credit may be given for work done elsewhere at a centre approved by the Chairman. Candidates, once enrolled, may under certain circumstances spend one of the three years at another centre, provided this meets with the approval of the Chairman of the Department. In all instances, to qualify for the Diploma the student must spend at least two years of graduate study in the Department of Anaesthesia of McGill University.

Each student is assigned for clinical work to one of the participating hospitals. Having spent six or twelve months in the hospital to which he was first posted, the student is then rotated every six months through a number of hospitals within this framework. Some of the hospitals are specialized while others are general.

During each appointment of six months, the Residents are directed by the staff members of the particular hospital where that residency is being served. Seminars are held weekly according to a programme which is the same for all hospitals. Some departments hold sessions which are set aside for review of the literature, while others have special sessions for the discussion of interesting cases. All the hospitals have excellent library facilities, and the libraries of the medical faculty are also accessible.

On the second Monday in each month there is a departmental meeting moderated by a physician. Medical cases are here presented and discussed, following which anaesthetic points of interest, incident to them, are debated. On the fourth Monday in each month, the group meets for presentation of cases of interest or recent advances. This portion of the programme is arranged in rotation by the Clinical Departments.

Every month, a written examination, which refers to the seminar subjects of the previous four weeks, is set for all residents.

Postgraduate Basic Science Series

The Postgraduate Basic Science Series of lectures for all medical and surgical disciplines is followed where the topics are of importance to the specialty. Those lectures which are not of immediate interest are replaced in alternate years with a series on Pharmocology and Anatomy.

The granting of the Diploma is subject to complete satisfaction in all the clinical rotations and Applied Basic Science courses. The Chairman and Chiefs of Clinical Departments reserve the right to dismiss at any time all those whose work is unsatisfactory or who appear to have chosen the wrong medical specialty.

In association with the Department of Anaesthesia is the Wellcome Anaesthesia Research Department, the purpose of which, established jointly by the Wellcome Trust and the University, is the BASIC study of anaesthetic mechanisms. Opportunities are available in this department for special study leading to post-doctoral degrees, as well as for post-doctoral research.

Annual Advanced Course in Anaesthesia

This course is held during the month of September and is open to those sitting examinations in the fall and to those already in anaesthetic practice. At this course, the Wesley Bourne lecturer participates in the teaching sessions.

Guest Professor

Annually, a Visiting Professor spends a week in the Clinical Departments. Further information on any aspect of this Department can be obtained by writing to the Chairman, Department of Anaesthesia, McGill University.

DEPARTMENT OF ANATOMY

Professors — C. P. Leblond (Chairman), S. M. Banfill, Yves Clermont.

Associate Professors — N. J. NADLER, D. G. OSMOND.

Lecturers — A. N. Freedman, O. Hommes, C. Huckins, B. Kopriwa, H. Warshawsky, E. W. Workman.

Demonstrator — A. RAMBOURG.

REQUIRED COURSES

1. Gross Anatomy.

First year: Dissection and lectures cover the gross anatomy of the body except the Head, Neck and Brain. The course includes Embryology and Surface and Radiological Anatomy.

Second year: Dissection and lectures on the Head, Neck and Brain. This course is followed by 2. Introduction to the Central Nervous System, listed below, and a combined examination is held at the end of the year.

2. Introduction to the Central Nervous System. For Second year students and conducted with the co-operation of the Departments of Neurology and Neurosurgery, Physiology and Psychology. This course is listed under the Department of Neurology and Neurosurgery as 2A.

3. Applied Anatomy. Designed for graduate students.

Textbooks: J. C. B. Grant, A Method of Anatomy, 6th ed. (Williams and Wilkins, 1958). D. F. Davies and F. Davies, Gray's Anatomy, 33rd ed. (Longmans 1962).

Atlas: J. C. B. Grant, An Atlas of Anatomy, 5th ed. (Williams and Wilkins, 1962).

Practical Manual: J. T. Aitken et al., A Manual of Human Anatomy, 5 vols. (Livingstone 1956-58).

Surface Anatomy: A. B. Appleton et al., Surface and Radiological Anatomy, 4th ed. (Heffer 1958).

Introduction to Medicine. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry and Physiology, in rotation.

ELECTIVE COURSES

The Department provides, as far as material will permit, facilities for advanced work or revision. The Chairman of the Department should be consulted by anyone wishing to undertake work of this nature.

4. Advanced Neuro-Anatomy. Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton. The class is limited to ten. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.

Microscopic Anatomy

REQUIRED COURSE

6. Histology. The study of the cytology and structure of tissues and organs. Textbooks: A. W. Ham, Histology, 5th ed. (Lippincott, 1965); W. Bloom and D. W. Fawcett, A Textbook of Histology, 8th ed. (Saunders, 1962).

Embryology

REQUIRED COURSE

8. The Study of Human Developmental Anatomy. This course is integrated with 1. Gross Anatomy.

Textbooks: J. Langman, Medical Embryology, (Williams and Wilkins 1963); L. A. Arey, Developmental Anatomy, 6th ed. (Saunders 1954); W. J. Hamilton et al., Human Embryology, 2nd ed. (Heffer 1952).

For graduate courses, see the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF BIOCHEMISTRY

Professors — K. A. C. ELLIOTT (Chairman), O. F. DENSTEDT, J. H. QUASTEL, M. SAFFRAN, P. G. SCHOLEFIELD.

Associate Professors — E. A. Hosein, D. Rubinstein, S. Solomon.

Assistant Professors — Rose M. Johnstone, M. Manning, J. H. Spencer, S. C. Sung, A. R. Wasserman, T. Wood.

Lecturers — Eleanor M. Harpur, Sally MacLachlan.

Senior Biochemists in Other Departments

E. H. Bensley (Experimental Medicine), Marion K. Birmingham (Psychiatry), Rhoda Blostein (Experimental Medicine), R. H. Common (Agricultural Chemistry), D. E. Douglas (Medicine), L. Goodfriend (Experimental Medicine), J. Gordon (Surgery), R. Harpur (Parasitology), R. Hobrirk (Experimental Medicine), L. Lloyd (Nutrition), Catherine MacPherson (Psychiatry), A. Hope McArdle (Surgery), Hanna M. Pappius (Neurology and Neurosurgery), M. Richter (Experimental Medicine), A. Sehon (Chemistry), T. Sourkes (Psychiatry), Eleanor M. H. Venning (Experimental Medicine), B. Weigensberg (Pathology), L. S. Wolfe (Neurology and Neurosurgery).

FIRST YEAR

Biochemistry. Three hours lectures and four hours laboratory per week.

THIRD YEAR ELECTIVE

Research in Biochemistry and Physiology. A limited number of students may take Biochemistry or Physiology as their elective subject in the Third year. These students will be given the opportunity to participate in research projects in the Department.

OPTIONAL ADDITIONAL COURSES

For students who are interested in additional studies in Biochemistry the current graduate courses in Biochemistry are recommended. (See the *Announcement of the Faculty of Graduate Studies and Research.*) For undergraduate courses in the Faculty of Arts and Science see the *Announcement* of that Faculty.

DEPARTMENT OF EPIDEMIOLOGY AND HEALTH

Strathcona Professor — J. C. McDonald (Chairman).

Professor of Medical Statistics — P. E. ENTERLINE.

Associate Professor — A. D. McDonald.

Assistant Professors — M. A. BAIN, J. G. LOHRENZ.

Lecturers — D. C. Bews, D. S. Fleming, F. M. Jones, B. Pollak, M. G. Townsend.

FIRST YEAR

1. Health and the Community. 24 lectures.

SECOND YEAR

2A. Epidemiology.
24 lectures.

2B. Industrial Medicine.

24 lectures.

2B. Industrial 12 lectures.

2C. Statistics in Medicine.

12 lectures followed by laboratory or seminar sessions.

THIRD YEAR

3A. Field Survey Course.

Four afternoons a week for three weeks during which students in small groups undertake epidemiological surveys in the community.

3B. Medical Jurisprudence.

12 lectures by invited speakers mainly from the Faculty of Law.

HISTORY OF MEDICINE

Professor -

REQUIRED COURSES

- 1. Introductory Course (First year). A series of 12 lectures to provide an historical orientation to the student entering upon the study of medicine.
- 2. History of Medicine (Second year). A series of 12 lectures providing a survey of the history of relationships between medicine and general culture.

DEPARTMENT OF INVESTIGATIVE MEDICINE

Professor — J. S. L. BROWNE (Chairman).

Associate Professors — C. J.-P. GIROUD, N. KALANT.

Assistant Professors — A. CARBALLEIRA, J. STACHENKO.

Research Associate - S. SOLOMON.

Honorary Lecturers — J. Genest, G. Lemieux, J. Marc-Aurele, W. J. Nowaczynski.

Lecturers — I. T. BECK, C. I. CHAPPEL, B. MURPHY, R. SCHUCHER, R. WOLFE.

The Department offers courses leading to the M.Sc. and Ph.D. degrees in the Faculty of Graduate Studies and Research and provides research facilities for these students or for other persons proceeding to graduate degrees, diplomas or for other qualified individuals. The Department is also prepared to make arrangements to offer elective courses for Medical undergraduate students.

The courses and the direction of research in this department are given in close collaboration with the Department of Experimental Medicine and members of either department give lectures and direct the research of graduate students registered in the other.

Students may work either in the Medical Building or in one of a number of hospitals depending on the type of work done (clinical or laboratory) or upon the individual directing the research. Part of the function of the department is the correlation of clinical investigation being done at various hospitals.

Students holding either the M.D. or B.Sc. degree or their equivalents may enter the department provided that their standing is acceptable. For the list of courses and further details see the *Announcement of the Faculty of Graduate Studies and Research*.

DEPARTMENT OF MEDICINE

Professors — D. G. CAMERON (Chairman), J. C. BECK, R. V. CHRISTIE.

Associate Professors — B. A. Cooper, G. A. Copping, G. E. Craig, R. R. Forsey, S. O. Freedman, G. W. Halpenny, W. H. P. Hill, M. M. Hoffman, C. H. Hollenberg, J. G. Howlett, A. L. Johnson, L. Lowenstein, J. L. McCallum, E. McGarry, M. McGregor, J. M. McKenzie, H. S. Mitchell, E. A. S. Reid, S. R. Townsend.

Assistant Professors — M. Aronovitch, C. M. Ballem, R. C. Bennetts, F. M. Bourne, L. Brunton, R. F. P. Cronin, J. H. Darragh, N. M. K. Deleeuw, J. B. Dossetor, C. A. Goresky, J. L. Hutchison, L. G. Johnson, G. E. Joron, F. Kalz, M. Kaye, D. G. Kinnear, A. Knight, B. A. Levitan, A. D. MacDonald, D. J. MacIntosh, R. D. McKenna, K. R. Mackenzie, J. F. Meakins, I. G. Milne, W. H. Palmer, J. A. P. Paré, C. J. Pattee, J. S. Polson, D. Rubinstein, J. R. Ruedy, P. Schopflocher, P. Sekelj, L. Shapiro, K. A. Sowden, C. H. Stacey P. B. Stewart, D. Stubington, A. T. Thom, D. L. Thomson.

Lecturers — A. Angel, E. Arendt, A. Aronoff, C. S. Barker, R. G. Baxter, I. T. Beck, J. O. W. Brabander, P. Bradley, J. L. Brandt, L. A. Caswell, Wm. Cohen, K. G. Dawson, R. E. Donevan, P. A. Edwards, P. A. Flint, A. Gold, A. Gordon, T. R. Hale, R. G. M. Harbert, A. G. Kendall, L. Kovacs, A. W. Lapin, W. Leith, C. C. MacDonald, J. R. Martin, W. E. H. Mason, A. Miller, R. E. G. Place, T. J. Quintin, J. A. Shanks, J. A. Sosa, R. L. Stanford, P. O. Telner, H. A Warner, P. G. Weil, J. Wener, R. D. Wilkinson D. H. Woodhouse, L. A. Wright.

Demonstrators — J. R. Albert, D. Barza, T. A. Brown, L. E. Cassidy, P. Chesney, M. S. Cohen, S. R. Cooper, F. A. D'Abadie, S. Eidinger, C. M. Flint, Wm. Gerstein, S. J. Helle, J. G. Hellstrom, M. A. Hickey, H. Z. Hollinger, T. D. Kinsella, L. J. Korenberg, M. Kovalik, M. Kunstler, W. A. R. Laing, I. Lapin, W. K. MacDonald, N. MacIntosh, D. G. Mackay, D. M. Marcus, H. F. Mizgala, P. Mlynaryk, T. Monks, M. B. Nestel, G. Piasecki, B. Pollak, L. Redmond, S. L. Richardson, J. Rubin, R. Shulman, P. Sommerfreund, K. R. Stewart, T. J. Sullivan, V. Susset, E. A. Turcot, I. Winkler, D. Wiselberg, J. C. G. Young, T. T. Zsoter.

Experimental Medicine

Professors — D. V. Bates, E. H. Bensley, B. Rose, Eleanor Venning.

Associate Professors — M. Becklake, R. Hobkirk, B. Kovacs, S. Solomon.

Assistant Professors — R. Blostein, J. H. Dirks, H. G. Friesen,
L. Goodfriend, L. Gyenes, G. Klaasen, P. T. Macklem,
J. Milic-Emili, W. M. Spence, D. B. Tonks.

Lecturers — H. L. GOLDSMITH, J. JEPSON, A. D. ROTENBERG, D. B. SHAW, M. VAS.

Demonstrators — N. R. Anethenisen, B. Bain, Sheila Solomon.

N.B.: See the Announcement of the Faculty of Graduate Studies and Research.

THE UNDERGRADUATE CURRICULUM IN THE DEPARTMENT OF MEDICINE

FOREWORD

The object of the following courses is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease, to afford a knowledge of the technique, and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students, teachers, and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy, and biochemistry with clinical medicine is emphasized—not only in the pre-clinical years, but later in hospital and laboratory—thus affording students a modern scientific medical training. The importance of regarding the patient as a person is emphasized throughout.

Unusual facilities are afforded at the Royal Victoria Hospital and at the Montreal General Hospital where there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

REQUIRED COURSES

SECOND YEAR

Course II 1—Integration of Physiology, Biochemistry and Anatomy with Medicine.

Time — Last term of Second year: three lectures a week.

Place - Medical Building.

Subject Material — This course covers in a systematic manner the deviations from the normal of the physiological and biochemical functions. These are correlated so as to explain symptoms and signs which may be found on physical examination as detected by clinical methods dealt with in Course II 2. This course is so interpreted as to give the student a panoramic view of these disturbances with a proper perspective.

Course II 2-A Practical Course in Clinical Methods.

Time - Third term of Second year.

Place — The Royal Victoria, Montreal General, and Queen Mary Veterans' Hospitals.

Subject — Practical instruction 6 hours a week on Normal and Abnormal Physical Signs.

Course II 3—Laboratory Diagnosis.

Time — Last term of Second year.

Place — Medical Building.

Subject — Instruction and practice 2 periods a week in microscopy as applied to clinical medicine.

Dr. Lauder Brunton and Assistants

THIRD YEAR

Course III 4—Case Reporting

During the trimester in Medicine students will be assigned patients in the wards. They will be required to write case histories, make a general examination, note progress, and do such laboratory investigations as are within their scope and

have access to all other Laboratory and X-Ray findings. Teaching Fellows will be available to assist students in this work. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

Course III 5—Clinico-Pathological Conference

Time — Weekly during the medical term.

Place — The Royal Victoria and the Montreal General Hospitals.

Course III 6. Integration of Physiology, Biochemistry and Anatomy with Medicine — a continuation of course II.

One lecture a week for 2 terms, two lectures a week for the third term.

Course III 7—Therapeutics. A course of lectures on the principles of therapeutics and on the treatment of various diseases for which clinical material is not readily available.

FOURTH YEAR

Course IV 8—Case Reporting. An effort is made to enable the student in the Fourth year to take an active part in the care of the patient, both in the wards and in the Out-door Clinics. One month will be spent on the wards and one month in the "Comprehensive Clinic" of the outpatient department. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

Course IV 9—Clinical Pathological Conference.

Time — Once a week during the medical term.

Place — The Royal Victoria and the Montreal General Hospitals.

For graduate courses in Medicine, see under Department of Investigative Medicine in this Announcement and under Department of Experimental Medicine in the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

Professors — R. W. Reed (Chairman), G. G. Kalz, J. W. Stevenson.

Associate Professors — G. W. Bartlett, C. A. Butas, B. H. Matheson,
S. I. Vas.

Assistant Professors — H. Abramovitch, E. C. S. Chan, P. M. Cooke, L. Kapica, E. Mankiewicz, A. M. Masson, G. Webster.

Lecturers — S. Nommik, F. Prissick, R. Silov, E. Wood.

Teaching Fellow — R. SWAN.

All lectures and laboratory periods are held in the Pathological Institute.

20. Medical Microbiology.

Second Year. This course deals with the general principles of medical microbiology and immunology. Both lectures and laboratory are concerned with the anatomy and physiology of infectious agents, theories of infection and immunity and a systematic study of bacteria, viruses, rickettseae, fungi and parasites pathogenic to man.

25. Dental Microbiology.

OTHER COURSES

The Department offers a range of courses leading to the Honours B.Sc. in Microbiology and is well-equipped for graduate research leading to the M.Sc. and Ph.D. Training in clinical microbiology is available in the service laboratories of the Royal Victoria Hospital and the Montreal Neurological Institute located in the Department.

See the Announcements of the Faculty of Arts & Science and the Faculty of

Graduate Studies and Research.

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

Professor of Neurology and Neurosurgery — THEODORE RASMUSSEN (Chairman).

Professor of Neurology — Francis McNaughton.

W. V. Cone Professor of Neurosurgery — WILLIAM FEINDEL.

Associate Professors of Neurology - D. W. BAXTER, D. L. LLOYD-SMITH, PRESTON ROBB.

Associate Professors of Neurosurgery — GILLES BERTRAND, JOSEPH STRATFORD, JOHN BLUNDELL.

Associate Professor of Neurological Radiology — DONALD MCRAE.

Associate Professor of Clinical Neurophysiology — PIERRE GLOOR.

Associate Professor of Neuropathology — GORDON MATHIESON.

Associate Professor of Neurochemistry — LEONHARDT WOLFE.

Associate Professor of Clinical Psychology — Brenda MILNER.

Assistant Professors of Neurology — J. B. R. Cosgrove, IRVING HELLER, ALLAN SHERWIN, W. F. T. TATLOW.

Assistant Professors of Neurosurgery — Charles Branch, Harold Elliott, PHANOR PEROT.

Assistant Professor of Neurochemistry — HANNA PAPPIUS.

Assistant Professor of Neurological Radiology — Roméo Ethier.

Lecturers in Neurology. — Frederick Anderman, Bernard Graham.

Lecturer in Clinical Neurophysiology — ISRAEL LIBMAN.

Lecturer in Neurosurgery — HENRY GARRETSON.

Lecturer in Neuroanatomy — ALLAN MORTON.

Demonstrators in Neurology - N. BUENDIA, G. GIANNAKAKIS, R. NELSON, K. SEAMANS, N. SINGH.

Demonstrators in Neurosurgery — R. Hansebout, M. Sculco, B. Weir.

Demonstrator in Neuropathology - F. LEBLANC.

Demonstrator in Electroencephalography — Lewis Henderson.

Research Associate — Y. LUCAS YAMAMOTO.

Fellows of the Montreal Neurological Institute — A. BENGZON, N. BUENDIA,

G. CARBONIN, G. CELESIA, J. DAVIS, D. DERRY, J. DREIFUSS, M. EBE, A. ESPINA, G. GIANNAKAKIS, P. GRISHAM, M. GUERAMY, D. GUZMAN,

R. Hansebout, M. Heuff, O. Hommes, F. Leblanc, M. Lechter, A. Lorenzo, N. Lush, A. Mathieu, G. Mathews, E. Meier-Ewert,

K. MEIER-EWERT, W. MCCANN, J. MURPHY, C. NEEDHAM, R. NELSON, C. PACE-ASCIAK, E. PERRET, J. REED, A. ROBERGE, K. SACHDEV, Z. SAYEED, A. SCHWARTZ, M. SCULCO, K. SEAMANS, T. SHOHMORI, G. SINGH,

SECOND YEAR

- 2A Introduction to the Central Nervous System. Combined course given by the Departments of Anatomy, Neurology and Neurosurgery, Physiology and Psychology. Two hours lecture, three hours laboratory and one hour demonstration per week, during the second term and two hours lecture per week during the third term.

 Professors McNaughton, Gloor, Burns and Hebb
- 2B Instruction in Clinical Examination of the Nervous System. Given in conjunction with the Department of Medicine in the third term.
- 2C Neuropathology. Given in conjunction with the Department of Pathology in the third term.

 Professor Mathieson
 - 2D Applied Physiology (Department of Medicine). Six lectures.

 Professors Rasmussen, McNaughton and Staff

THIRD YEAR

3A Clerkship in Neurology and Neurosurgery. Four afternoons per week for three weeks, at the Montreal Neurological Institute.

Professors Rasmussen, McNaughton and Staff

- 3B Survey Lectures, Diseases of the Nervous System. 12 lectures given during the first term.

 Professors Rasmussen, McNaughton and Staff
- 3C Clinics and Conferences in Conjunction with the Departments of Medicine and Surgery.

FOURTH YEAR

Clinics and Conferences in Conjunction with the Departments of Medicine and Surgery.

ELECTIVE COURSES

Neuroanatomy.

- 600. This course is given in combination with course 2A "Introduction to the Central Nervous System."
 - 601. Additional graduate seminars will be held co-ordinated with Course B.
 - 602. Preparation of a term paper on a neuroanatomical subject as arranged.
 - **603.** Advanced Neuroanatomy for selected group; times to be arranged.

 Professor McNaughton

Neurophysiology.

- 610. Lectures and examination together with undergraduate course Neurology and Neurosurgery 2A "Introduction to the Central Nervous System."
- 611. Weekly seminars and demonstrations co-ordinated with Course A-2 (4 months, beginning in December). Mondays, 4:30 to 6:00 p.m.
- 612. Under exceptional circumstances, a paper on a neuro-physiological subject may be written by special arrangement as a substitute for 610.

Professors Gloor and Wolfe

620. Colloquium in Clinical Neurology.

1 hour weekly, clinics and lectures, Wednesdays, 5:00 p.m. M.N.I. (9 months).

Staff and Visiting Lecturers

630. Seizure Mechanisms and Cerebral Localization: Clinical Electroencephalographic, and Roentgenographic Conference.

M.N.I. 11/2 hours weekly (9 months). Tuesdays, 4:00 to 5:30 p.m.

Professors Rasmussen, Gloor, McRae and Milner

640. Outline of Neurochemistry.

Instruction in Neurochemistry in addition to that provided in course B-2 may be obtained by special arrangement.

Professor Wolfe

Neuropathology.

- 650. Six months laboratory work in Neuropathology.

 Professors Mathieson and Carpenter
- 651. Conference in Neuropathology, Thursdays, 4-5 p.m.

 Professors Mathieson and Carpenter
- 652. Introduction to Histopathology of the Nervous System. A short basic course for a limited number. By special arrangement with Professor Mathieson.

For graduate credit, courses 650 and 651 are required. Under special circumstances written and/or oral examinations may be substituted for 650 and 652.

Neurological Radiology.

- 660. Lecture demonstrations (3 months beginning in September). Mondays 4:30 to 6:00 p.m.
- 661. Colloquium, 1 hour weekly (9 months) Mondays, 9:00 a.m.

Professor McRae

Electroencephalography.

- 670. Laboratory work in Electroencephalography (minimum of six months with active participation, seminars, lectures and conferences).
- 671. Lecture series and conferences in Electroencephalography. Fridays, 4:30-6:00 p.m., October and November, January and February.

Professors Gloor, Lloyd-Smith, Broughton and Andermann.

Diploma in Neurology (Dip. Neurol.)

Minimum prerequisites for entry to the Diploma Course in Neurology are a degree from an approved Medical College or School and one year's interneship in an approved hospital.

Applications for admission should be addressed to the Chairman, Department of Neurology and Neurosurgery, McGill University.

The course is of four years' duration and consists of the following units:

- A. One year of work in one of the related basic sciences, such as Neuropathology, Neurophysiology (including E.E.G.), Neuroanatomy, Neurochemistry, Neuroradiology, Endocrinology, etc. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery, or in some other department of McGill University on the recommendation of the Chief of the Service and with the approval of the Chairman of the Department of Neurology and Neurosurgery. Preparation of a thesis or a paper approved for submission for publication by the Laboratory Chief and the Professor of Neurology and Neurosurgery (Dr. Rasmussen), will be required. This year may be used for work towards the M.Sc. degree in the Faculty of Graduate Studies and Research of McGill University (see Announcement of the Faculty of Graduate Studies and Research for requirements and registration procedure).
- B. Six months in Psychiatry in the Department of Psychiatry at McGill University. (Note: Under special circumstances the candidates may substitute six months in the Department of Psychiatry in some other accredited hospital or university.)

- C. Six months in Neurosurgery at the Montreal Neurological Institute. (Note: Under special circumstances a candidate may substitute neurosurgical training received in the neurosurgical department of some other accredited hospital or university or additional training in Neurology or Medicine.)
- D. Two years in clinical Neurology, one of which must be at the Montreal Neurological Institute. The other year may be taken at other neurological centres with the approval of the Professor of Neurology and Neurosurgery and on recommendation of the Chief of the Neurological Service.

Before receiving the Diploma the candidate must successfully pass an oral examination in clinical Neurology and Neurosurgery.

Further information may be obtained by writing the Chairman, Department of Neurology and Neurosurgery, McGill University.

Diploma in Neurosurgery (Dip. Neurol. Surg.)

Minimum prerequisites for entry to the Diploma Course in Neurosurgery are a degree from an approved Medical College or School and one year's interneship in an approved hospital.

Applications should be addressed to the Chairman, Department of Neurology and Neurosurgery, McGill University.

The course is of four years' duration and consists of the following units:

- A. One year of work in one of the related basic sciences, such as Neuropathology, Neurophysiology (including E.E.G.), Neuroanatomy, Neuroradiology, Endocrinology, etc. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery, or in some other department of McGill University on the recommendation of the Chief of the Service and with the approval of the Chairman of the Department of Neurology and Neurosurgery. Preparation of a thesis or a paper approved for submission for publication by the Laboratory Chief and the Professor of Neurology and Neurosurgery (Dr. Rasmussen), will be required. This year may be used for work towards the M.Sc. degree in the Faculty of Graduate Studies and Research of McGill University (see Announcement of the Faculty of Graduate Studies and Research for requirements and registration procedure).
- B. Six months in clinical Neurology at the Montreal Neurological Institute. (Note: Under special circumstances, credit for six months of clinical Neurology in some other accredited hospital or university department of Neurology or additional training in Surgery, Medicine or Neurological Surgery may be accepted.)
- C. Six months in special work in a related field such as Neurophysiology, Neuroanatomy, Neuropathology, Biochemistry, Endocrinology, Metabolism, Psychiatry, etc., acceptable to the Chairman of the Department of Neurology and Neurosurgery.
 - D. Two years in clinical Neurosurgery at the Montreal Neurological Institute.

Note: Either unit A or C must be carried out in the Department of Neuropathology at the Montreal Neurological Institute.

Before receiving the Diploma the candidate must successfully pass a final oral examination on clinical Neurology and Neurosurgery.

Further information may be obtained by writing the Chairman, Department of Neurology and Neurosurgery, McGill University.

For graduate courses in Neurology and Neurosurgery, see also Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

Professors — G. B. MAUGHAN (Chairman), K. T. MACFARLANE.

Associate Professors — W. R. Foote, J. P. A. Latour, T. Primrose, G. A. Simpson, F. J. Tweedie.

Assistant Professors — M. Hendelman, J. L. Macarthur, J. H. Routledge, D. W. Sparling, M. H. V. Young.

Lecturers — P. R. Blahey, H. B. Bourne, Grace Donnelly, Simon Gold, J. S. Henry, Jr., E. A. MacCallum, Harry Oxorn, P. C. Tremblay, R. H. Usher.

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Demonstrators — G. H. Arronet, J. E. Coffey, J. R. Dodds, W. D. Fraser, C. C. Lindsay, J. R. O'Brien, R. M. Parsons, R. M. H. Power, L. D. Rhea, D. E. R. Townsend.

Undergraduate Course

The course is designed to impart a fundamental knowledge of the processes of human parturition, gynaecology and the care of the new-born. The student is introduced to the subject in his Second year. Thereafter in both his Third and Fourth years, intensive teaching is carried out using to the full the facilities of the Royal Victoria Montreal Maternity Hospital and to a lesser extent the gynaecological wards of the Montreal General Hospital. The Royal Victoria Montreal Maternity Hospital is the largest teaching unit of its kind in Canada and the clinical material to be found in its wards is unsurpassed.

REQUIRED COURSES

SECOND YEAR

An introductory course of twelve lectures is given by Professor Maughan during the last term. Following a review of the embryology and anatomy of the female genital tract the particular biochemical and endocrine aspects of the subject are taken up. The course closes with a description of the physiology of pregnancy and labour. Lectures are held in the Medical Building, McGill University.

THIRD YEAR

OBSTETRICS

During this year, twenty-eight lectures are given to teach the fundamentals of pregnancy, labour and the puerperium by the members of the Royal Victoria Montreal Maternity Hospital Staff. Following this series the Montreal General Hospital Staff conduct five lecture classes as an introduction to Gynaecology. Lectures are held in the Medical Building, McGill University.

An intensive six weeks of instruction in Obstetrics is given each group of students during the academic year by the Staff of the Royal Victoria Montreal Maternity Hospital. Student groups are further divided into smaller tutorial units so that individual students can be given the greatest opportunity to take part in the practical work of the class.

Eighteen hours are devoted to Manikin Instruction. Physical diagnosis at the bedside and Clinical Management in the wards and case rooms are allocated six hours each.

Professors Foote and Simpson conduct six seminars on the Principles and Theory of Obstetrics and a further six hours are taken up by the members of the Staff in reviewing current work in the subject.

Six hours of gynaecological colloquia are given by a senior member of the Royal Victoria Montreal Maternity Hospital Staff to augment the gynaecological teaching noted below.

Students are also required to attend Departmental Ward Rounds in the Royal Victoria Montreal Maternity Hospital when interesting cases are discussed and lectures given on the latest advances in the field.

Six classes are given by Doctor G. Nickerson, Paediatrician-in-Chief of the Royal Victoria Hospital and his Staff to introduce the student to the care of the new-born.

GYNAECOLOGY

Two mornings weekly throughout the six weeks are devoted to the teaching of Gynaecology at the Montreal General Hospital. Each teaching day is divided into three parts — (1) student participation groups or outdoor clinic instruction groups, (2) clinical teaching, and (3) didactic lectures. The student participation groups comprise nine periods devoted to the preparation and presentation of an allotted subject from the standard textbooks and current literature, supervised by a member of the teaching staff. The outdoor clinic instruction groups, with two or three students at a time, are intended to teach the techniques and details of gynaecologic examination with an introduction to commonly encountered gynaecologic problems at first hand. The clinical teaching consists of ward rounds, clinical pathological conferences, and the demonstration of minor gynaecologic operative procedures. The didactic lectures cover twelve major topics in Gynaecology.

Professor MacFarlane and Assistants, Montreal General Hospital

FOURTH YEAR

No formal lectures are given during the intensive four week course in Obstetrics and Gynaecology which is held entirely in the Royal Victoria Montreal Maternity Hospital. Students are coached in small groups and will live in the hospital for at least nine days. While living in, they are expected to participate in the work of the delivery rooms and wards. Written case reports are required and the student's progress is assessed partly on the care taken in the recording of the assigned cases and their follow-up. Teaching is divided between Obstetrics and Gynaecology using the facilities of the indoor and outdoor departments.

An eight hour refresher course in Manikin is given.

Professor Maughan conducts group hospital rounds once a week.

Twenty-four hours are devoted to bedside clinics on antepartum and postpartum management of the obstetrical patient with particular emphasis on the recognition and treatment of complications.

Eight hours of revision seminars.

Professor Primrose

Sixteen hours are devoted to the discussion of problems presented by the students.

R.V.M.M.H. Staff

Attendance at Outdoor clinics four afternoons a week is compulsory. Minor gynaecology and antepartum care are taught by the Staff members in charge of the cases. Students are also required to be present at Departmental Staff rounds each Monday morning during term.

Twelve bedside clinics are given in Gynaecology by members of the Staff.

Eight lecture-demonstrations in Gynaecological Pathology are given by Professor Latour and assistants who are also responsible for four hours of clinical instruction on the diagnosis and treatment of genital cancer.

Clinical Endocrinology is reviewed in four sessions of one hour.

Textbooks: N. J. Eastman and L. M. Hellman, Obstetrics (Appleton); Jeffcoate, Principles of Gynaecology (Butterworth); F. W. Roques, Diseases of Women, 10th ed. (Arnold 1959); Harry Oxorn and W. R. Foote, Human Labor and Birth (Appleton 1964).

Graduate Programme

The Department of Obstetrics and Gynaecology directs a five-year graduate programme involving residency training in a number of English-speaking hospitals in Montreal, with lectures and seminars in both pre-clinical and clinical fields and opportunities for research. Minimum prerequisites for entry into this programme are a degree from an approved Medical College or School, one year's rotating interneship, and one year of Surgery or half a year each of Surgery and Medicine at the assistant residency level. Further information may be obtained by writing the Chairman, Department of Obstetrics and Gynaecology, McGill University.

DEPARTMENT OF OPHTHALMOLOGY

Professor — J. C. Locke (Chairman).

Associate Professors — S. T. Adams, J. V. V. NICHOLLS.

Assistant Professors — R. A. Bourne, L. S. S. Kirschberg, Wm. Turnbull, R. J. Viger.

Lecturers — H. A. G. Duncan, S. B. Murphy, R. W. Pearman, R. B. Ramsey.

Demonstrators — J. B. Conroy, J. A. Foreman, E. Gordon, A. B. Leith,

J. G. Little, A. McKinna, P. Rosenbaum.

Undergraduate Courses

The undergraduate work in Ophthalmology is designed to meet the needs of a well-trained general practitioner and embraces the following courses:

SECOND YEAR

1. Routine Examination of the Eye. The various tests used in routine examination of the eye are demonstrated. Instruction in the use of ophthalmoscope is emphasized.

Five hours.

2. Pathology of the Eye. Six hours: two periods of three hours each.

THIRD YEAR

1. Lectures to the Entire Class. A survey of the entire field designed to furnish a background of essential information for the clinical work.

Twelve hours.

- 2. Practical Ophthalmoscopy. Montreal General and Royal Victoria Hospitals. Nine hours.
- 3. Elective Course in Ophthalmology. This intensive four-week course is given three times during the latter half of the Third year. The number of students in any four-week period is limited to two.

The classes include attendance at clinics, ward rounds and seminars; periods in the eye operating room; preparation of an assigned topic requiring consultation of current literature.

FOURTH YEAR

1. Practical Clinical Ophthalmology. Cases from the eye outpatient and indoor services are presented and discussed. Emphasis is on ocular problems that are of greatest moment in general practice.

Nine hours.

Textbooks: Francis H. Adler, Textbook of Ophthalmology, 7th ed. (Saunders, 1962); J. H. Allen, May's Manual of the Diseases of the Eye, 23rd ed. (Williams and Wilkins, 1963).

Reference books: W. S. Duke-Elder, Textbook of Ophthalmology, 7 vols. (Mosby, 1932-54); Eugene Wolff, Anatomy of the Eye and Orbit (Blakiston, 1954); Eugene Wolff, Pathology of the Eye, 3rd ed. (Blakiston, 1951); Francis H. Adler, Physiology of the Eye, 3rd ed. (Mosby, 1959).

Graduate Programme

The Montreal General and Royal Victoria Hospitals each conduct graduate programmes of residency training with scheduled lectures, seminars, case presentations and ward rounds. These programmes prepare candidates to meet the requirements for Fellowship of the Royal College of Surgeons of Canada and also the American Board of Ophthalmology. Detailed information concerning this programme may be obtained by writing the Ophthalmologist-in-Chief of each hospital.

DEPARTMENT OF OTO-LARYNGOLOGY

Professor — H. E. McHugh (Chairman).

Associate Professors — D. G. Doehring, R. P. Gannon (Experimental Oto-Laryngology), E. A. STUART.

Assistant Professor — E. John Smith.

Lecturers — J. D. Baxter, K. K. Charan, J. Dudley, Arnold Grossman, K. Hutton, B. Krantz, M. Manila, G. T. Shimo.

Demonstrators — A. COHEN, R. HALL MCCOY, R. MCMILLAN, W. H. NOVICK.

Undergraduate Courses

Instruction in Oto-Laryngology is given to students in the Second, Third and Fourth years and is designed to meet the needs of the general practitioner. The clinical courses are conducted in the wards and outpatient departments of the Montreal General, the Royal Victoria and the Montreal Children's Hospitals. The practical demonstrations are given before small groups of students.

SECOND YEAR

A special demonstration of Ear, Nose and Throat Anatomy on living subjects is given while the students are studying Anatomy of the Head and Neck. Physical diagnosis is also taught in six demonstrations. The students review the anatomy of the ears, nose and throat and are taught to use the head mirror and the special instruments more commonly used in the examination of these parts.

THIRD YEAR

Clinical instruction in the outdoor clinics and wards is given to small groups in "block time" consisting of consecutive mornings for one week for each group. Twelve lectures on Ear, Nose and Throat subjects are given to this class as a whole during the third term.

FOURTH YEAR

Clinical instruction is carried out in the outpatient departments in small groups and the students are given as much personal supervision as possible. The students attend two clinics per week for eight consecutive weeks and take an active part in the examination and treatment of the patients.

ELECTIVE COURSES

The new curriculum provides for Elective Courses of one month in this specialty.

Graduate Courses

See Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF PAEDIATRICS

Professor — ALAN Ross (Chairman).

Associate Professors — D. V. Bates, R. L. Denton, A. L. Johnson, C. R. Scriver, E. M. Worden.

Assistant Professors — H. L. BACAL, E. COLLE, K. N. DRUMMOND,

J. E. Gibbons, R. B. Goldbloom, D. A. Hillman, G. N. Nickerson, J. H. O'Neill.

Lecturers — P. Beaudry, M. Belmonte, H. R. Brodie, D. K. Clogg, J. H. Elder, F. C. Fraser, V. C. Goldbloom, R. Gourdeau, E. Harpur, E. Hillman, W. Jegier, M. Silverberg, R. Usher.

Demonstrators — P. Banister, H. Brickman, J. S. Charters, T. A. Cowan, A. H. Eisen, P. Fitzhardinge, D. R. McCrimmon,

J. H. V. Marchessault, A. J. Markus, S. Pedvis, P. S. Senecal, L. Stern, H. Surchin, W. W. Tidmarsh, M. B. Wise, I. Wright.

REQUIRED COURSES

1. Lectures:

(a) A series of 6 lecture-demonstrations on Growth and Development in the last term of Second year.

(b) A course of 24 lectures once weekly during the Third year entitled "The Developmental Biology of Paediatrics". The course is designed to stimulate the student's interest in basic science and to direct and apply it to problems of the developing fetus and newborn in preparation for his clinical experience in Fourth year.

Staff

2. Diseases of the Newborn: Royal Victoria Montreal Maternity Hospital:

(a) A weekly clinic demonstration to groups of students of the Third year during their obstetrical quarter.

(b) A weekly lecture to groups of Fourth year students during their four weeks in Obstetrics.

(c) Two days of direct contact with normal and abnormal newborn infants during block time teaching in final year.

Staff

3. Clinical Paediatrics:

(a) Groups during the final year spend eight weeks entirely at the Montreal Children's Hospital as clinical clerks taking part in bedside clinical conferences and, under supervision, caring for patients in the outpatient department.

- (b) Normal growth and development, the care and feeding of the normal infant, immunization procedures, and preventive paediatrics are taught at the Child Health Clinic in the Montreal Children's Hospital.

 Staff
- (c) A series of demonstrations to groups of students on the common infectious diseases is given at the Alexandra Hospital as part of the instruction of the final year.

 Staff

DEPARTMENT OF PATHOLOGY

Strathcona Professors — G. C. McMillan (Chairman), F. W. Wiglesworth.

Associate Professors — S. Kahn, W. H. Mathews, W. J. Pirozynski, H. Sheldon, W. M. Thurlbeck.

Assistant Professors — A. Angel, G. Mathieson, S. Moore, G. Rona, M. A. Simon, B. I. Weigensberg.

Lecturers — J. S. FAWCETT, J. KNAACK, J. O. LOUGH, D. R. MURPHY, P. SCHOPFLOCHER, H. C. STARY.

Demonstrators — I. Kerner, J. P. A. Latour, M. B. MacKenzie, A. Rona, J. R. Stuart.

REQUIRED UNDERGRADUATE COURSES

- 1. Course in General Pathology (First year):
 - 100. Illustrated lectures during the Spring term totalling 36 hours.

Professor McMillan and Staff

- Practical laboratory classes during the Spring term totalling 72 hours.
 Professor Pirozynski and Demonstrators
- 2. Course in Special Pathology (Second year):
 - 200. Illustrated lectures throughout the Second year totalling 72 hours.

Staff

- 201. Practical laboratory classes throughout the Second year totalling 72 hours.

 Staff
 - 202. Group demonstrations throughout the Second year totalling 72 hours.

 Staff
- 3. Course in Applied Pathology (Third and Fourth years):
- 300. Clinico-pathological Conferences alternate weeks throughout the Third year totalling 54 hours.

 Staff
- 400. Instruction in the performance of autopsies with demonstration of autopsy findings during the Fourth year.

Pathological Institute

Montreal General Hospital

Montreal Children's Hospital

Professor Thurlbeck

Professor Mathews

Professor Wiglesworth

GRADUATE COURSES

See Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF PHARMACOLOGY

Professor — K. I. MELVILLE (Chairman).

Associate Professors — B. G. BENFEY, B. A. KOVACS.

Assistant Professors — N. R. EADE, L. E. FRANCIS, G. E. JORON, E. M. KOVACS, D. R. VARMA.

Lecturers - F. HERR, H. E. SHISTER.

The object of the course in Pharmacology is to elucidate the basic principles of the actions of drugs, and thereby lay a sound foundation for drug therapy.

SECOND YEAR

2A. Pharmacology Lectures. The chemistry, metabolism (absorption, distribution and fate), mechanism of action, and therapeutic usage of the various classes of drugs are covered, so that the student may follow development of the subject intelligently.

JOINT PHARMOCOLOGY-THERAPEUTIC LECTURES: Twelve one-hour periods dealing with Human Pharmacology, arranged in conjunction with the Department of Medicine in the Teaching Hospitals as an introduction to Therapeutics. Clinical cases illustrating practical application of drug usage in man will be presented.

Two lectures a week during the first term and three lectures a week during the second term, totalling 72 hours.

2B. Pharmacology Laboratory, Demonstrations and Conferences:

PRACTICAL LABORATORY WORK: One two-hour period weekly, totalling 30 hours.

DEMONSTRATIONS: One hour weekly including films, totalling 18 hours. Special demonstrations are given from time to time.

Conferences: During the year four conferences of 45 minutes each and limited to six students, will be arranged. These conferences will replace the regular laboratory periods at the times specified.

2C. Toxicology Lectures. A course of ten lectures devoted to the problems of acute poisoning (occurrence, symptoms, modifying factors, diagnosis and treatment), is given during the third term of the Second year.

Dr. G. E. Joron

ELECTIVES

Suitably prepared students may undertake special research or training projects under the direction of a staff member at any time, by application to the Chairman of the Department.

Advanced courses leading to the degrees of M.Sc. or Ph.D. will be arranged to suit individual cases. See Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF PHYSIOLOGY

Professors — B. Delisle Burns (Chairman), F. C. MacIntosh.

Associate Professors — R. I. Birks, J. Q. Bliss, S. Dworkin, G. Melvill Jones, P. Sekelj, K. G. Terroux.

Assistant Professors — R. F. P. Cronin, D. R. Firth, J. Milic-Emili, M. Randic, E. J. Reininger.

Lecturers — R. P. GANNON, C. POLOSA.

Sessional Lecturers — T. M. S. Chang, B. A. Cooper, P. Gold, J. V. Milligan, D. Pengelly, E. Rosenberg, A. Wechsler.

REQUIRED COURSES

FIRST YEAR

Human Physiology.

This is an integrated course of lectures, demonstrations and laboratory work covering the major fields of human physiology. Some emphasis is placed on the clinical implications of basic physiological principles.

Lectures: Three hours a week.

Laboratory: Four hours a week.

Introduction to Medicine.

One hour a week, from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are conducted in turn by the Departments of Anatomy, Biochemistry, and Physiology.

SECOND YEAR

2. Anatomy and Physiology of the Central Nervous System.

Two hours lectures, two hours laboratory, and one hour demonstration a week, during the second term.

This is one course, given by the Departments of Anatomy, Neurology and Neurosurgery, and Physiology.

ELECTIVE COURSES

Research in Physiology. A limited number of students may take Physiology as an elective subject in their Third year. These students will be given the opportunity of participating in departmental research projects. Summer employment in research laboratories is also available for a limited number of students.

OTHER COURSES

For other undergraduate courses in Faculty of Arts and Science, see the Announcement of that Faculty.

For graduate courses, see Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF PSYCHIATRY

- Professors R. A. CLEGHORN (Chairman), H. LEHMANN, R. B. MALMO, A. E. MOLL, T. L. SOURKES, E. D. WITTKOWER.
- Associate Professors J. AUFREITER, M. BIRMINGHAM, H. CAPLAN, B. M. CORMIER, T. E. DANCEY, H. B. DUROST, P. G. EDGELL, N. EPSTEIN, B. GRAD, V. A. KRAL, D. J. LEWIS, A. W. MACLEOD, H. B. M. MURPHY, E. G. POSER, T. STATTEN, M. STRAKER.
- Assistant Professors F. Azima, T. A. Ban, S. Barza, J. Beaubien, C. Bos, I. S. Disher, L. G. Hisey, B. R. Hunt, L. A. Kerwood, H. Kravitz, E. LESTER, D. C. LEVIN, L. LEVY, Z. J. LIPOWSKI, J. G. LOHRENZ,
 - F. W. LUNDELL, A. S. MACPHERSON, C. MACPHERSON, A. M. MANN, J. Naiman, S. K. Pande, D. Pivnicki, R. H. Prince, M. S. Rabinowitch, G. J. Sarwer-Foner, A. E. Schwartzman, S. J. Shamsie, J. J. Sigal, A. Stewart, G. C. Taylor, J. S. Werry, S. Wilner.

Lecturers — N. R. Aldous, M. Amadeo, F. G. Aufreiter, C. Cahill,

C. H. CAHN, J. CASSELMAN, J. M. CLEGHORN, J. A. CORSON J. CUMBERLAND, L. DALLAIRE, H. DAVANLOO, S. DUDEK, W. D. ENGELS, K. G. FERGUSON, K. R. FERGUSON, N. GREENBERG, B. R. J. HARRIS,

D. P. Harris, E. S. Heath, G. F. D. Heseltine, M. Kennedy, E. Kingstone, E. Levinson, D. J. McClure, J. Mackay, L. Mergler, A. K. MULLER, H. F. MULLER, Y. NERMAN, G. PETERFY, V. M. RAKOFF,

P. D. L. ROPER, J. St. LAURENT, J. SANGOWICZ, J. F. SAUCIER, J. SENDBUEHLER, B. SILVERMAN, C. H. SKITCH, C. C. SMITH, R. M. SMITH, L. SOLYOM, S. L. SVED, G. H. TURCOT, J. R. UNWIN, R. N. WALSH,

H. WARNES, W. W. WATTERS, G. WEISS.

Demonstrators — H. AST, C. BENIERAKIS, G. C. BIELY, S. BIKADOROFF, C. COHEN, P. CHORAS, R. L. DEVERTEUIL, J. M. DIVIC, R. B. FELDMAN, J. P. GAMACHE, H. GELBER, H. GRAUER, J. D. HACKETT, G. HANRAHAN, M. KATZ, F. KRISTOF, J. L. LAPOINTE, M. LEMIEUX, F. H. LOWY, R. C. McDonald, G. J. Maguire, A. F. Meszaros, K. K. Minde, G. C. Patton, H. Pitts, S. C. L. Ramesar, A. Russell,

G. SCHNEIDERMAN, P. M. SEGAL, L. SLOMAN, L. G. STERN, B. TROSSMAN, M. TURSKI, B. WAINRIB, N. WISEBORD.

REQUIRED UNDERGRADUATE COURSES

FIRST YEAR

Growth, Development and Human Relationships: A total of 16 hours, the first two being introductory lectures in psychobiology. The remaining hours of the course will include technique of child examination, diagnosis of child psychiatric states, child psychiatric problems as seen in various treatment facilities, including paediatrics outpatient clinic.

Professors Cleghorn, Statten, Ross (Paediatrics) and Staffs

SECOND YEAR

Two courses of lectures: (a) 12 1-hour lectures on psychopathology; (b) 12 2-hour sessions on psychiatric case studies, with case presentation.

Professors Durost, Lehmann and Staff

THIRD YEAR

Six weeks block teaching to acquaint students with the examination of patients and understanding of some of the major factors involved in abnormal behaviour. Diagnostic procedures, psychotherapeutic and physical methods of treatment, will be among the aspects covered. Students will be provided with tutors on a group basis and will also have more specialized training in the areas of child psychiatry, community psychiatry and mental disorders.

Professors Cleghorn, Moll, Dancey, Durost, Statten, Silverman and Staffs

FOURTH YEAR

The teaching in this year will be largely focused on clerkship. Students will attend tutorials, ward rounds, seminars, conferences, etc., at the Allan Memorial Institute, Montreal General Hospital and Queen Mary Veterans' Hospital.

Professors Cleghorn, Moll, Dancey and Staffs

GRADUATE COURSES

DIPLOMA IN PSYCHIATRY (Dip. Psychiat.)

Minimum prerequisites for entry to the Diploma Course in Psychiatry are a degree from an approved Medical College or School and one year's rotating interneship in an approved hospital.

Applications for admission should be addressed to the Chairman, Department of Psychiatry, McGill University.

The course is of four years' duration. Credit, not amounting to more than two years, may be given for study completed at other centres prior to enrolment at McGill University. In all instances, to qualify for the Diploma, the student must spend at least two years of graduate study in the Department of Psychiatry of McGill University in Montreal.

The Diploma Course is organized to provide a comprehensive training for those preparing themselves for a career in the field of general psychiatry, and those who wish to proceed to specialized preparation in such fields as child, community, transcultural psychiatry, university teaching and research, or general hospital psychiatry with special emphasis upon psychosomatic work.

The first two years are devoted to establishing a fundamental knowledge of clinical conditions and of general therapeutic procedures. Special emphasis is laid upon psychopathology, psychodynamics and psychotherapy, and upon gaining experience in the full range of diagnostic and therapeutic procedures now in common use in psychiatry.

The last two years of the course provide considerable choice in courses and in training locations to meet the needs of those who wish special advanced experience in the special areas referred to above.

Increasing emphasis is now being placed upon research work. Students showing aptitude and inclination may spend a year either in the laboratories of the Allan Memorial Institute, or as a member of a field group, or on one of the clinical investigative teams at work in the various clinical teaching hospitals of McGill University.

Theoretical instruction and practical experience are closely and continuously integrated and the student is expected not only to participate in, but also to learn how best to use the major teaching procedures such as group therapy discussions, seminars, didactic lectures, case conferences, journal clubs, recorded interviews, as well as the one-way screen and movies.

Extensive use is made of the tutorial method of teaching, particularly in connection with psychotherapy. In each of the four years students are assigned to a tutor who is a member of the attending staff.

In addition to the training areas within the Department of Psychiatry, post-graduate students who have completed not less than two years' training may be assigned to the research teams and groups established in connection with the other clinical centres, where they work under the direction of a senior member of the research staff. Moreover, arrangements are possible with other departments within the University for periods of special study: for instance, with the Montreal Neurological Institute for special instruction and experience in neurology, or with the University Clinic of the Department of Internal Medicine for special advanced work in the psychosomatic field. At least six months' work in a mental hospital will be required.

Students are expected to have sufficient knowledge of English to participate adequately in seminar instruction and to benefit from their clinical experience.

Before receiving the Diploma the candidate must pass an examination during the Second year and again at the end of the Fourth year.

Further information may be obtained by writing the Chairman, Department of Psychiatry, McGill University.

COURSES FOR THE DEGREE OF MASTER IN SCIENCE IN PSYCHIATRY

See Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF RADIOLOGY

Professor — JEAN BOUCHARD (Chairman).

Associate Professors — J. S. Dunbar, R. G. Fraser, D. L. McRae, D. J. Sieniewicz.

Associate Professor of Physics — L. G. Stephens-Newsham.

Assistant Professors - B. B. HALE, M. N. LOUGHEED, D. W. MACEWAN.

Lecturers - N. M. Brown, F. A. Grainger, G. B. Skinner.

Lecturer in Physics - R. A. BEIQUE.

Demonstrators — B. St. J. Brown, J. E. Campbell, R. Ethier, J. H. Gagnon, J. Gibson, J. J. Hazel, R. O. Hill, J. Kiss, F. R. MacDonald, G. H. Maguire, M. B. Nogrady, L. Rosenthal, W. M. Ross, J. L. Vezina, R. E. Wilson.

Demonstrator in Physics - H. H. ZWICK.

UNDERGRADUATE COURSES

FIRST YEAR

Normal Roentgen Anatomy with special attention to functional changes in the skeletal and the several visceral systems.

In co-operation with the Department of Anatomy Professor Bouchard and Staff

SECOND YEAR

Introduction to Radiology including the basic principles and application of radiation physics, radiation biology and physiology in diagnosis and therapy by means of ionizing radiations.

Professor McRae

THIRD YEAR

(a) Clinical Radiology—a systematic exploration of radiologic evidence of disease and the therapeutic applications of ionizing radiations; weekly conferences while the students are attending Internal Medicine and Surgery in the teaching hospitals.

Professors Bouchard, Sieniewicz, Fraser and Staff

(b) Elective: A tutorial period, with opportunity for the student to explore the radiological features of some special disease, entity or syndrome in one of the teaching hospitals.

Professors Bouchard, Fraser, Sieniewicz and Staff

FOURTH YEAR

Clinical Radiology continued in the programme initiated in the Third year while attending Internal Medicine and Surgery with the addition of Paediatrics.

Professors Bouchard, Sieniewicz and Dunbar and Staff

GRADUATE COURSES

(a) DIPLOMA IN RADIOLOGY (Dip. Radiol.)

Minimum prerequisites: Degree from an approved Medical Faculty, College or School; one year of general rotating interneship; appointment on the Resident Staff in Radiology of one of the teaching hospitals for this Faculty.

Required Studies: Four years of postgraduate study in Diagnostic and/or Therapeutic Radiology including Radiation Physics, Radiobiology and Pathology in the University and its teaching hospitals.

Advanced credit may be allowed by the Departmental Committee for graduate study in Radiology and/or cognate fields (Internal Medicine, Clinical Surgery or

the basic Sciences) in approved institutions or teaching hospitals elsewhere, but not in excess of two of the required four years. Studies pursued in the basic sciences should be of a quality acceptable in partial fulfilment of the requirements for the M.Sc. degree.

In addition to a thorough grounding in general medical radiology, in so far as practicable arrangements may be made for the candidate to pursue studies in the special fields pertinent to his chosen division, such as the diagnostic radiologic interest in neurologic and paediatric diseases or the diagnostic and therapeutic interests of nuclear medicine in the therapeutic division.

Preparation of a scientific paper, under supervision of his tutor or as co-author, will be expected of each candidate.

Both written and oral final examinations are required.

The didactic programme of the Diploma Course and the associated clinical studies are fully accepted à propos the specialist certification by the several qualifying bodies.

Further information may be obtained from the Chairman, Department of Radiology, McGill University.

(b) MASTER OF SCIENCE (M.Sc.)

For information relative to the M.Sc. degree, see Announcement of the Faculty of Graduate Studies and Research or enquire of the Chairman of the Department.

DEPARTMENT OF SURGERY

- Professors Fraser N. Gurd (Chairman), Lloyd D. MacLean, David R. Murphy, H. Rocke Robertson.
- Associate Professors H. A. Baxter, A. R. C. Dobell, J. W. Gerrie, J. R. Gutelius, J. C. Luke, S. T. Martin, H. S. Morton, H. F. Moseley. H. J. Scott, A. G. Thompson, A. M. Vineberg, F. M. Woolhouse.
- Assistant Professors N. J. Belliveau, W. M. Couper, J. C. Dickison, J. A. Drummond, M. A. Entin, R. L. Estrada, L. G. Hampson, I. W. D. Henderson, A. F. Jones, R. C. Long, D. D. Munro, H. F. Owen, J. D. Palmer, B. J. F. Perey, D. W. Ruddick, E. J. Tabah.
- Lecturers A. R. Bazin, H. E. Beardmore, P. E. Blundell, A. N. Freedman, F. G. Inglis, G. M. Karn, R. N. Lawson, G. W. Lehman, D. T. Lin, J. R. Moore, W. L. Ogilvy, I. Shragovitch, J. A. S. Wilson.
- Demonstrators L. Drake, P. Madore, E. D. Monaghan, R. V. Moralejo, G. R. Murphy, F. V. Nicolle, E. G. O'Brien, H. Shibata, H. H. Sigman, H. D. Stevens, H. B. Williams, G. K. Wlodek, E. W. Workman, A. McB. Wright.

EXPERIMENTAL SURGERY

Professor — DONALD R. WEBSTER.

Associate Professor - S. C. SKORYNA.

Assistant Professors — G. Bounous, D. M. Edward, J. Gordon, E. J. Hinchey, A. H. McArdle, Edith Rosenberg.

N.B.: See the Announcement of the Faculty of Graduate Studies and Research.

ORTHOPAEDIC SURGERY

Associate Professor — J. G. PETRIE.

Assistant Professors — R. L. CRUESS, J. M. McIntyre, C. L. Wilson, W. E. Wilson.

Lecturers — I. S. BITENC, A. A. BUTLER, E. C. PERCY, J. L. SHUGAR, R. G. TOWNSEND.

Demonstrators — H. F. FARFAN, D. B. FORBES, F. A. H. GREENWOOD.

UROLOGY

Associate Professors — K. J. MACKINNON, R. G. REID.

Assistant Professors — J. B. Dossetor, S. A. MacDonald, J. T. MacLean, J. Susset.

Lecturers — C. A. Moore, J. A. OLIVER.

Demonstrators — I. J. De Domenico, N. Halpern, W. F. Lingard, D. D. Morehouse, T. Nearing.

REQUIRED UNDERGRADUATE COURSES

SECOND YEAR

Surgical teaching begins in the Spring term (12 weeks) of the Second year. In this year special attention is directed to the instruction and training of the student in proper methods of physical examination from the surgical point of view.

- 2A. A Course of Lectures (12) is given covering the basic principles of Surgery.
- 2B. Group Classes in the wards of the Montreal General and Royal Victoria and Queen Mary Veterans' Hospitals. At these, small groups of students are instructed in methods of examination as applied to surgery and its allied specialties.

THIRD YEAR

The student comes into a more intimate contact with the patients, and in the surgical term of eight weeks is assigned cases, writes case reports, acts as dresser, and assists at operations. His clinical work is confined to one hospital — either the Montreal General Hospital or the Royal Victoria Hospital.

- 3A. Discussions concerning material covered in an assigned reading course will be held in the Montreal General and the Royal Victoria Hospitals one day each week.
- 3B. Group Ward Classes in the Montreal General and the Royal Victoria Hospitals, five times a week during the term.
- 3C. Case Reporting. Patients are allotted to students who act as reporters, dressers, and assistants at operations.

FOURTH YEAR

In the Final year the student spends eight weeks attached to the surgical service of a hospital. During four of these weeks the student is required to live in the hospital.

SURGICAL DISEASES OF CHILDREN

Some instruction in the surgical diseases of children is given during the trimester in which the students are assigned to paediatrics at the Montreal Children's Hospital as follows:

4A. Group Ward Classes three times a week throughout the trimester.

In their Final year students attend either the Shriners Hospital or the Montreal Children's Hospital for further instruction in paediatric surgery.

ORTHOPAEDIC SURGERY

Some lectures covering the basic principles of orthopaedic surgery are given in the Second year and members of the Orthopaedic Staffs of the Montreal General Hospital and Royal Victoria Hospital participate in the Second and Third year bedside clinics.

In the Final year seminars are conducted by members of the Orthopaedic Staff.

UROLOGY

In the Final year students are assigned to the Urological Services of the Montreal General Hospital and Royal Victoria Hospital for one week and, in addition to this, ward classes are held three times a week in each hospital.

GRADUATE COURSES

DIPLOMA IN UROLOGY (Dip. Urol.)

Minimum prerequisites for entry to the Diploma Course in Urology are a degree from an approved Medical College or School, one year's rotating interneship in an approved hospital, and two years of training in general surgery or divided between general surgery and pathology or some other basic science.

Applications for admission should be addressed to the Chairman, Department of Surgery, McGill University.

The course is of three years' duration. The three years are spent as a member of the resident staff in the Department of Urology of the McGill University Teaching Hospitals. Throughout the three-year period, during the academic sessions, lectures or seminars are held one night each week. Through the co-operation of the Department of Medicine each candidate spends four months in the Renal Laboratory.

No examination is held. The Diploma is recommended on the satisfactory completion of the three year training programme.

For other graduate courses in Surgery, see Announcement of the Faculty of Graduate Studies and Research.

BUILDINGS

THE McINTYRE MEDICAL SCIENCES BUILDING

This building contains the Offices of Administration, the Medical Library, the Osler Library and Wellcome Camera, the Departments of Biochemistry, Pharmacology and Physiology and a number of special research units.

THE STRATHCONA MEDICAL BUILDING

This building contains the Department of Anatomy, the Department of Investigative Medicine and the Faculty of Dentistry.

THE PATHOLOGICAL INSTITUTE

This building was opened for use in October 1924. The construction of a seven-storey wing, completed in June 1966, provided a total area of approximately 140,000 square feet of laboratory and teaching facilities. The Institute is situated on the north-east corner of University Street and Pine Avenue adjacent to the Montreal Neurological Hospital and the Royal Victoria Hospital. It is occupied by the Departments of Microbiology and Immunology, of Epidemiology and Health, and of Pathology. The building has extensive facilities for teaching, research and diagnosis.

THE MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. The construction of the McConnell Wing, opened in 1953, approximately doubled both the clinical and laboratory space. With excellent equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neurosurgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine and the Montreal Neurological Hospital for the care of patients with organic diseases of the nervous system. In addition to wards, operating rooms, and laboratories for treatment and study of diseases of the nervous system, the building provides facilities for graduate study and research in the related fields of basic science.

THE ALLAN MEMORIAL INSTITUTE

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building was reconstructed to permit of the establishment of a fifty-bed unit, together with extensive research laboratories, and was officially opened July 12, 1944.

In 1946 the first day hospital in the world was opened at the Institute and in

1953 a fifty-bed wing was added.

In 1963 a research and training building was added by McGill University thus providing one of the most extensive and modern research areas.

Both undergraduate and postgraduate teaching are carried on at the Institute.

THE DONNER BUILDING

The Donner Building for Medical Research, adjacent to the Strathcona Medical Building, was completed in September 1948. Its erection was made possible through the generosity of William H. Donner of Philadelphia, the late founder of the international Cancer Research Foundation, who provided the funds necessary for the construction of a building entirely devoted to medical research. It has recently been renovated through the generous assistance of the Donner Foundation.

The building houses the Maxwell Lauterman Laboratories for Surgical Research and the Gastrointestinal Research Institute, and also provides facilities for many types of medical and surgical investigation.

HOSPITALS

The following hospitals and institutions are at the disposal of the teaching staff and students for clinical and pathological study:

> Royal Victoria Hospital Montreal General Hospital

Montreal Children's Hospital Queen Mary Veterans' Hospital Alexandra Hospital for Infectious Diseases Douglas Hospital Royal Edward Chest Hospital Royal Victoria Montreal Maternity Hospital Montreal Neurological Hospital

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical Faculty. These affiliated hospitals contain over 6,000 beds.

The Royal Victoria Hospital comprises the following units under one administration:

- 1. The Main Building;
- 2. The New Medical Wing;
- 3. The New Surgical Wing;
- 4. The Ross Memorial Pavilion for private patients;
- 5. The Women's Pavilion Royal Victoria-Montreal Maternity;
 - 6. The Allan Memorial Institute.

The total bed complement is 1,018, with 115 bassinets. Admissions total over 24,000 and confinements are in excess of 3,800 a year. There are more than 125,000 visits annually to the Outpatient Department. The University Clinic was established in 1924 and has facilities for both clinical laboratory work and research.

Post-mortems total 60 per cent of the deaths.

The number of resident physicians is 212.

The Montreal Neurological Hospital, consisting of the hospital activities of the Montreal Neurological Institute, is situated across the street from the Royal Victoria Hospital and constitutes the Department of Neurology and Neurosurgery for this hospital. There are 135 beds, including a paediatric unit, for the care and investigation of patients with organic diseases of the nervous system. There are approximately 2500 admissions yearly, about half to the Neurological Services and half to the Neurosurgical Services. Approximately 1100 surgical procedures are carried out each year.

The Royal Victoria-Montreal Maternity Pavilion, with 197 beds for obstetrical and gynaecological cases. In this institution there are 117 teaching beds and an organized outpatient service which is of the greatest benefit to the undergraduate student. In a typical year, the obstetrical service cares for over 3,800 confinements in the Hospital. In the gynaecological section, over 2,800 cases are admitted during the year.

There are 22 resident physicians.

The Montreal General Hospital has a bed complement of 750 for the treatment of acute diseases. In a typical year, there are approximately 20,000 admissions and 150,000 consultations in the Outpatient Department. The resident and interne staff numbers 130.

The "Montreal General" was founded in 1821; two smaller buildings downtown had preceded it in 1816 and 1819. In age, therefore, it is not the oldest hospital in Canada, but its record in clinical teaching is one of the longest on the North American continent.

From the time the Hospital was opened, its staff began to arrange for students and, in 1823, they opened the first Medical School in Canada, the Montreal Medical Institution, with 25 students. Teaching was carried on partly at the Hospital. It was this School which agreed to form the Medical Faculty of McGill University in 1829; the beginning of a long and intimate association between the Hospital and the University.

The present buildings on Cedar Avenue were occupied in 1955.

The Montreal Children's Hospital has 367 beds (65% public beds), and, in a typical year, admits 12,000 patients. The attendance at its outdoor department totals over 136,000 clinic visits. This hospital admits all classes of cases of disease in children except pulmonary tuberculosis and the communicable diseases, and enables students to get a broad concept of paediatrics.

There are 236 autopsies in a typical year, representing 90.1% of all deaths. The number of resident physicians is 100.

Queen Mary Veterans' Hospital has 700 active treatment beds and 1,200 beds at Ste. Anne's Hospital, Ste. Anne de Bellevue for rehabilitation, geriatrics and psychiatry.

The hospital was taken over by the Department of Veterans Affairs in August 1946, with affiliations of consulting, attending and resident staff which were set up in collaboration with the Medical Schools of McGill University and l'Université de Montréal.

Admissions are over 7,500 a year and include not only veterans, but serving members of National Defence, Merchant Navy, Immigration, R.C.M.P., personnel returning from the Tropics, and, groups from other Government Departments.

The outpatient attendance is approximately 100,000 annually and the post-mortem rate is about 85%.

Active treatment and research are maintained in all the usual fields and, in addition there are special departments: Paraplegics, Plastic Reconstruction and Prosthetics (construction, alterations and fitting of artificial limbs).

The resident physician appointments number 74 and 6 of these rotate through Ste. Anne's Hospital.

All specialties, except Obstetrics and Paediatrics, are covered.

The Alexandra Hospital for Infectious Diseases, opened in 1906, with modern wards, cubicles and equipment is regularly attended by students who receive demonstrations on the essential features of all the common acute infectious diseases and tuberculosis.

There are three wards for the treatment of tuberculosis in children and tuberculous meningitis in adults and children. There are 150 beds (including 50 for tuberculosis) and the average yearly admissions range between 800 and 1,000.

There is a resident senior physician and two junior rotating physicians.

Douglas Hospital was opened in 1890. It is a psychiatric hospital for the treatment of emotional and mental diseases and with its 1,760 beds serves mainly the English-speaking communities of the Province of Quebec. There are also facilities for adolescent behaviour problems and children with mental disorders.

The hospital is directed by a private Board of Governors but admits non-paying patients on the basis of a contract with the Provincial Government. There are approximately 1,700 admissions per year and in the After Care Clinic about 2,000 patients are seen during the year.

The medical staff consists of 22 psychiatrists, 6 physicians and 22 psychiatric residents who are registered with the McGill Diploma Course in post-graduate psychiatry; some 20 consultants in the various medical specialties also visit the hospital regularly.

Third year undergraduate medical students of McGill University spend three weeks on the wards of the hospital as part of their psychiatric teaching. The hospital provides clinical instruction and training of nurses, nursing assistants, occupational therapists, psychologists and social workers, and field work experience for post-graduate training of professional personnel. An active research programme is carried on in the basic and clinical aspects of human behaviour.

The Royal Edward Chest Hospital has as its objectives the study, prevention and treatment of Tuberculosis and diseases of the chest. It consists of an Out-patient Department and In-patient treatment. The Out-patient Department includes an Anti-Tuberculosis Dispensary and a Chest Clinic. The Hospital contains a 100-bed Non-Tuberculous Chest Condition Unit and a 24-bed Tuberculous Unit. Its facilities include Operating Rooms and Laboratories and it maintains an active research programme. Residency appointments number 10.

THE MEDICAL LIBRARY

Medical Librarian — RODOLPHE C. LAVERGNE.

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The Library contains approximately 100,000 volumes. It is located on the second, third and fourth floors of the McIntyre Medical Sciences building. The entrance to the Library is on the third floor, near the elevators. On this floor are found the circulation desk, the reference department, the catalogue, the book collection, part of the journal collection and the study rooms. The second and fourth floors hold mostly journals and additional seating. The Library offices are located on the second floor.

The chief value of the Library is in its periodical collection. About 2,000 journals are received currently in almost all languages. The book collection is especially noteworthy in the ophthalmological section due in large measure to many gifts from the late Dr. Casey A. Wood.

The Library is for members of the teaching staff and students of the Faculty and of the whole University, and for research workers and doctors in the city. An extensive interlibrary loan service throughout the country is maintained.

The Library is open during the academic session from Monday to Friday, 9 a.m. to 10 p.m. September to March; 9 a.m. to 11 p.m. April to mid-June; Saturday 9 a.m. to 5 p.m. After June 15 the hours are 9 a.m. to 5 p.m. Monday to Friday, closed Saturday.

There are also small libraries and collections of books and journals located in several Departments of the Faculty.

THE OSLER LIBRARY WELLCOME CAMERA

This special library of the history of medicine and science collected by Sir William Osler with a view to its educational value, was bequeathed by him to his Alma Mater. The collection is rich in early editions of the older literature, as well as in modern historical works.

The Osler Library was moved in toto from the Strathcona Medical Building and has been reconstructed on the first floor of the two-storied wing of the McIntyre Medical Sciences Building devoted to the history of medicine. Osler's

original collection of 8,000 books is to be found in this room. Offices and ample reading areas are also on this floor and seminar rooms, stack space and additional reading areas are located on the second floor of this wing.

Over 12,500 volumes have now been added to the original collection and are shelved in the Wellcome Camera, a large reading room with open stacks, adjacent to the Osler Library and the main Reading Room of the Medical Library.

The Osler Library is open daily, except Sunday, for the use of undergraduates and all who are interested. The books belonging to the original collection may not be borrowed but this restriction does not apply to the current works on the history and biography of medicine and sciences which are constantly being added to the library.

Entrance to the Osler Library — Wellcome Camera wing is reached by entering the Main Reading Room of the Medical Library on the third floor of the building.

MEDICAL SOCIETIES

McGILL MEDICAL STUDENTS' SOCIETY

The Society is an association of all registered medical students. Acting through its Council, which is composed of elected and appointed student representatives, the Society performs two main functions which are

1) to represent the medical student body in all its dealings with the Medical Faculty, and

2) to regulate all Society affairs, e.g. Medical Ball, Banquet, Essay Competition.

In performing its first function, the Society leaders act as a liaison between faculty and students on all matters of mutual interest and concern. Recent items of mutual concern have been scheduling of fourth year studies, hours of library operation, and the status of McGill medical students in the Province of Quebec.

The second main function involves the organization of the medical student extracurricular life as it exists. Besides sponsoring social functions, the Society publishes a quarterly journal, *The McGill Medical Journal*, which contains reports of student research and scholarly articles on many aspects of medicine. The Society also publishes a monthly *Bulletin* to inform students of current news and upcoming events, and an annual yearbook, *The Speculum*.

Active participation in Society affairs is one of the best ways of complementing the medical school experience.

ALPHA OMEGA ALPHA HONOUR MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate, and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the Third and Fourth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

OSLER SOCIETY

The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes men from each class in the faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.

POST-DOCTORAL FELLOWS 1964-65

	Graduated		Hospital or	Registered for Grad.
Name	From	Year	Department	Degree
ALLEN, A. C.	McGill	1959	RVH	00LP P.
ANASTASSIADES, T.	McGill	1962	RVH/Biochemistry	M.Sc.
ANDERMAN, F.	Montreal	1957	MNI	M.Sc.
ANGEL, A.	Manitoba	1959	RVH	AHTOD
ANTHONISEN, N.	Harvard	1958	RVH	Ph.D.
ARRATA, W. S. M.	Cairo	1955	RVH	M.Sc.
BAIZ, T. C.	St. Louis	1958	MNI	74.0
BAKER, L. W.	Witwatersrand	1951	Donner	M.Sc.
BARREÍRO, M. A.	Buenos Aires	1959	RVH	M.Sc.
BEDARD, P. C.	Montreal	1961		M.Sc.
BELANGER, R.	Montreal	1963	Inv. Med.	M.Sc.
BENARD, B.	Montreal	1960	Anatomy	M.Sc.
BIRD, C. BODNAR, S.	Queens	1956 1951	RVH RVH	Ph.D.
BOISVERT, M.	Hungary McGill	1961	RVH	Ph.D.
BORROMEO, C. P.	Phillipines	1956	Exp. Surg. Donner	M Sc.
BOTS, G. T. A. M.	Leiden	1963	MNI	IVI SC.
BOUNOUS, G.	Turin	1952	MGH	Ph.D.
BOUSVAROS, G.	Athens	1953	RVH	Тп.Б.
BROUGHTON, R. J.	Queens	1960	MNI	Ph.D.
BROWN, R. A.	McGill	1962	MGH	M.Sc.
BUFFERY, A.	Cambridge	1964	MNI	
BURFOOT, M. F.	Oxford	1958	RVH (Anaes.)	Ph.D.
CANTLIE, G.	McGill	1960	RVH	KATEN
CELESIA, G.	Genoa	1959	MNI	M.Sc.
CHANG, C. A.	Korea	1958	RVH	KHEDA
CHEVALIER, L.	Toronto	1957	MCH	KILLENO
CHO, S. W.	Korea	1958	RVH	KIM_E. C
CHUN, J. Y.	Korea	1952	Donner	Ph.D.
CLEGHORN, J. M.	McGill	1958	AMI	M.Sc.
COIMBRA, A.	Oporto	1952	Anatomy	KOYAMA
CRUESS, S. R.	Columbia	1955	RVH	LADAGA
CSORBA, T. R.	Budapest	1956	Inv. Med.	Ph.D.
DAGENAIS, G. R.	Montreal	1964	RVH	M.Sc.
DANIEL, G. A.	Budapest	1950	Donner	MANAGER
DAVIS, J. A.	Lausanne	1960	MNI	UCH AM
DAYAL, V. S.	Patna	1959	Otl.	M.Sc.

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			Hospital	for
	Graduated		or	Grad.
Name	From	Year	Department	Degree
		1062	Inv. Med.	Ph.D.
DeCHAMPLAIN, J.	Montreal	1962	MNI/Biochemistry	M.Sc.
DERRY, D. M.	U.B.C.	1962 1962	RVH	M.Sc.
DOLLFUSS, R. E.	McGill	1962	MGH	171.00.
DOLOVICH, J.	Manitoba		RVH	PIE to
DUPRE, J.	Oxford	1958	MCH	BYE SYE
EISEN, A. H.	Toronto	1956		Ph.D.
FAM, W. M.	Cairo	1946	RVH	Ph.D.
FESSLER, A.	McGill	1962	RVH	TH.D.
FLAVIO, C.	Bologna	1961	AMI/MNI	100 TRO
FORBES, P.	Manchester	1958	MCH	
FOX, G. S.	Toronto	1960	RVH (Anaes.)	DI D
GEOKAS, M. C.	Athens	1951	RVH (Inv. Med.)	Ph.D.
GERSON, K. L.	Ohio State	1958	RVH	M.Sc.
GERSON, K. L. GIBSON, W. J.	Queens	1962	MGH	M.Sc.
GODON, A.	Montreal	1960	MNI	
GOLD, P.	McGill	1955	MGH/Physiology	Ph.D.
GOLDBERG, N. J.	McGill	1959	Donner	M.Sc.
GOLDMAN, H.	Basle	1958	MCH	THE VI
	Budapest	1951	RVH	MOH
GONDA, A.	McGill	1958	RVH/Biochemistry	Ph.D.
GREEN, R. N. GULERIA, J. S.	Punjab	1953	RVH	ATHER
	Toronto	1958	RVH	M.Sc.
GUZMAN, C. A.		1952	RVH	2234
HENDERSON, J. A. M.	Utrecht	1959	MNI	of the state
HEUFF, M.		1959	Physiology	Ph.D.
HINCHEY, E. J.	Queens	1961	RVH	M.Sc.
HOLLEY, H. S.	Washington	1957	Anatomy	COLLEGE CO.
HOMMES, O.	Utrecht	1956	RVH	
HOOD, A. B.	McGill	1962	RVH	2 13271
HOROWITX, I.	McGill	1962	MGH	
HUTCHISON, G. A.	McGill			
IWAMIYA, M.	Okayama Japan	1950	RVH	The state of
JEPSON, J. H.	McGill	1959	RVH	
JUHASZ, A.	Budapest	1951	RVH	Maria Mili
KAHN, A.	Queens	1958	RVH	DI D
KALAYCI, M. N.	Ankara	1955	RVH	Ph.D
KANEKO, K.	Gunma Japan	1955	RVH	NATIONAL PROPERTY.
KARPATI, G.	Dalhousie	1960	MNI	7
KASAKURA, S.	Kyoto Japan	1959	RVH	DI D
KATO, Y.	Yokohama	1955	Donner	Ph.D
KHANNAKHJAVAN, F	7. Tehran	1956	RVH	Ales
KHERA, S. A. K.	Punjab	1956	RVH	ni n
KILLINGER, D. W.	Western Ont.	1957	RVH/Biochemistry	Ph.D
KIM, S. O.	Korea	1951	RVH	-
KOO, C. G.	Cambridge	1958	RVH	M.Sc
KOVACHEV, S.	Belgrade	1940	RVH (Anaes.)	OF
KOYAMA, I.	Tokyo	1949	MNI	
LADAGA, L. G.	Manila	1957	RVH	Ph.D
LEE, S. L.	Seoul	1952	MCH	JAN DE
MacDONALD, R. N.	McGill	1959	RVH	AVED!
MANDAVIA, M.	Bombay	1949	Anatomy	Ph.D
MARDUN, B. F.	Beirut	1960	MNI	1 20/1

	Name	Graduated From	Year	Hospital or Department	Registered for Grad. Degree
					Degree
	E.	Dnjepropetrowsk		RVH	SPENER
McCANN.		Georgetown		MNI	STANCES IN
McCLURI			1956		M.Sc.
MIRON, I MISRA, R	D D	Ottawa	1957	MCH (Anaes.)	- n
				Inv. Med.	Ph.D.
MITCHEL		McGill Laval	1959 1957		DI D
MORCH,		McGill		RVH	Ph.D.
MULDER		Saskatchewan		MGH	MCa
MURPHY	, 5.5.	McGill	1959		M.Sc.
MURRAY		Wisconsin		Anatomy	ATAIUI
MYERS, J		Temple	1957	RVH (Path.)	Ph.D.
NAYAK,		Bombay		RVH (Fath.)	Ph.D.
NEUMAN	N P	Sczged		MCH	Th.D.
ОН, Ј. Н.	11,11	Korea		RVH	Ph.D.
ORIOL, A		Cordoba		RVH	Th.D.
ORTEGA,	J. M. R.	Madrid	1962	Inv. Med.	Ph.D.
OUTERBE	RIDGE, J.	McGill		Physiology	Ph.D.
PAPP, O.	A.	Debrecen, Hung.		RVH	T II.D.
PATERAS		McGill		RVH	111111111111111111111111111111111111111
PAUL, M.			1956	Donner	Ph.D.
PERRET,		Neuchatel	1964	MNI	_
PLANTE,	G. E.	Montreal	1964	Inv. Med.	M.Sc.
PRIME, R	. L.	Dalhousie	1953	RVH (Anaes.)	
RAMBOU		Nancy	1961	Anatomy	196
RENGIFO		Colombia (S.Am.)		MNI	_
REESAL,		Belfast	1955	RVH/Biochemistry	Ph.D.
RICHTER		McGill	1964	RVH	_
ROBERTS	. R. W.	Western Ont.	1955	RVH (Anaes.)	_
ROBLES,	M. J. L.	Phillipines	1958	Donner	M.Sc.
RODGER		Manitoba	1960	RVH	
ROJUS, L		Mexico	1961	RVH	M.Sc.
ROMAN,	T. N.	McGill	1959	RVH	_
	I, D. A. K.	Queens	1961	MGH	M.Sc.
ROUSSEA		Louvain	1964	Inv. Med.	M.Sc.
RUSE, J. I		Toronto	1954	RVH/Biochemistry	Ph.D.
RYGIEL,		Warsaw	1954	MCH	M.Sc.
SABBADI		Pavia	1954	Donner	M.Sc.
SARGENT		McGill	1957	RVH	Ph.D.
SARKAR,	K.	Calcutta	1957	Anatomy	_
SATOGLÚ	J, A. T.	Istanbul	1953	MNI	_
SCHWAR'	TZ, A. M.	Queens	1959	MNI	_
SEELY, J.		McGill	1963	MCH	_
	ER, A. K. K.	Punjab	1956	RVH	-
SHAMSUI		Decca	1952	Donner	M.Sc.
SHAW, D.	B.	McGill	1957	RVH (Amaga)	
SHEPHAR	D, D. A. E.	London (U.K.)	1955	MNI (Anaes.)	Mea
SHIBATA		Hiroshima	1955	RVH	M.Sc.
SHOHMO	KI, 1.	Okayama	1957 1960	MNI Inv. Med	M.Sc.
SILAH, J.	T	Beirut		Inv. Med.	WI.SC.
SMITH, H	. J.	Queens	1959 1960	RVH RVH	
SOLOMO	ν, δ.	Columbia	1900	KVII	

Name	Graduated From	Year	Hospital or Department	Registered for Grad. Degree
SPENCE, M. W. STACHEWITSCH, A. STEVEN, E. M. STRONG, C. G. SUGIYAMA, R. SUM, Tai, Y. TAORI, G. M. TARANTINO, L. THOMAS, E. A. TOTH, A. TREMBLAY, G. Y. TROP, D. TURCOTT, R. TURNBULL, A. D. M. UNWIN, J. R. VAS, M. R. VILLENEUVE, A. WESSELHOEFT, H. WHITEHEAD, J. M. ZBOROWSKI, ZEMEL, R.	Alberta Freiburg London (U.K.) Alberta Nagoya Japan Manila Nagpur Naples Travancore Budapest Montreal Ghent Montreal Kiev USSR McGill Queensland Budapest Laval Freiburg McGill Rio de Janeiro Toronto	1959 1955 1940 1958 1961 1958 1957 1956 1952 1962 1958 1960 1937 1961 1956 1952 1958 1959 1953 1953 1957 1958	MNI/Biochemistry MCH RVH Inv. Med. MCH (Anaes.) RVH MNI Ottl. RVH RVH Inv. Med. RVH RVH Inv. Med. RVH MGH RVH AMI RVH AMI RVH AMI RVH AMI RVH RVH RVH RVH RVH RVH	Ph.D. M.Sc. M.Sc. Ph.D. M.Sc.

Faculty of Medicine

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McGill University FACULTY OF MEDICINE

ADMINISTRATIVE OFFICERS

H. ROCKE ROBERTSON, B.Sc., M.D.,C.M., D.C.L. (Bishop's), LL.D. (Man., Tor., Vict. & Glas.), D.Sc. (U.B.C.), D. de l'U. (Montr.), F.R.C.S. (Edin.), F.R.C.S.(C), F.A.C.S.

Principal and Vice-Chancellor M. K. OLIVER, B.A., M.A., Ph.D.

Vice-Principal (Academic)
C. A. WINKLER, O.B.E., M.Sc. (Man.), D.Phil. (Oxon.), Ph.D., F.C.I.C., F.R.S.C.

Vice-Principal (Planning and Development)

RONALD V. CHRISTIE, MB., Ch.B., M.D. (Edin.), D. Sc. (Lond.), Sc.D. (Dublin), M.Sc., F.R.C.P., F.A.C.P., F.R.C.P.(C)

EDWARD H. BENSLEY, M.B.E., B.A., M.D. (Tor.), D.Sc. (Acad.), F.R.C.P.(C), F.C.I.C., F.A.C.P.

S. M. BANFILL, M.B.E., B.A., M.D., C.M.

Associate Dean (Admissions)

DAVID V. BATES, M.D. (Cantab.), F.R.C.P.(C), M.R.C.P.(Lond.)

G. E. JORON, B.A., M.D., C.M., F.A.C.P., Dip. (Int. Med.)

JOHN G. HAMPSON, B.Com., C.A.
ALAN L. PATERSON, B.Sc.
G. A. GRIMSON, B.Com.
J. H. HOLTON, B.Com. (Tor.)
ALLAN C. McCOLL, D.F.C., B.Com., C.A.
COLIN M. McDOUGALL, D.S.O., B.A.

Assistant Dean (Professional Relations)
Business Officer of the Faculty
Executive Secretary of the Faculty
Executive Assistant to the Principal
Secretary of the Board of Governors
Comptroller
Registrar

TUTORS 1966-1967

First year — Drs. P. Beaudry, P. Blundell, F. Bourne, H. Brickman, P. L. Bromage, L. Caswell, J. H. Dirks, D. Engels, S. O. Freedman, P. Gloor, A. Gold, R. Goudreau, J. Gutelius, E. Hillman, M. Hoffman, A. L. Johnson, G. Joron, G. Karn, P. T. Macklem, L. D. MacLean, J. Martin, L. McCallum, J. Miller, J. Oliver, H. F. Owen, B. Perey, J. S. Polson, A. Ross, J. R. Ruedy, D. J. Sieniewicz, M. Silverberg, B. Skinner, J. B. Sutherland, W. Tatlow, M. Wise.

Second year — Drs. D. Baxter, J. Q. Bliss, J. Blundell, J. L. Brandt, B. St. J. Brown, B. Cosgrove, R. L. Cruess, H. Don, J. Dossetor, J. S. Dunbar, J. Elder, J. Gibbons, T. R. Hale, D. Hillman, R. Lawson, G. W. Lehman, D. MacIntosh, E. McGarry, F. L. McNaughton, W. Palmer, J. P. Robb, H. A. Scott, A. Sherwin, J. Sosa, L. Stern, W. Thurlbeck, G. Weiss, W. E. Wilson, G. Wlodek.

Separate Announcements are available for the School of Physical and Occupational Therapy, and the School for Graduate Nurses.

Details of Scholarships, Bursaries, Prizes, Medals, and Loan Funds are given in the Scholarships Announcement, which may be obtained from the Registrar's Office.

Administrative Offices of The Faculty of Medicine are in The McIntyre Medical Sciences Building, 3655 Drummond St., Montreal 2.

FACULTY OF MEDICINE

The one hundred and thirty-fifth session of the Faculty will open on September 6, 1967 for students of all years.

Students may enter the Faculty of Medicine in one of two ways. A limited number will be admitted from high school to the Combined Course in Science and Medicine. Most will be admitted from college to the four-year medical course.

A. COMBINED COURSE IN SCIENCE AND MEDICINE

APPLICATION FOR ADMISSION

Application should be made by March 1, 1968 to the Admissions Office of McGill University, Montreal 2, Canada. Application forms may be obtained from the Registrar's Office or the Admissions Office.

REQUIREMENTS FOR ENTRANCE

Students of high calibre and first-rate academic attainment will be admitted to the First year of this programme after successfully completing Junior Matriculation. They will be enrolled directly in the Faculty of Medicine and at the same time in the Faculty of Arts and Science. In exceptional circumstances students will be admitted to the Second year of the seven-year course when they have obtained high standing in Senior Matriculation. A joint committee of the two Faculties concerned will select the successful candidates.

DESCRIPTION OF COURSE

Seven years from Junior Matriculation, six years from Senior Duration: Matriculation.

B.Sc. (after 5 years), M.D., C.M. (after 7 years).

Degrees: Chemistry, Physics, Mathematics, Biology and two electives.

Second year: Organic Chemistry and five electives.

Third year: Five electives.

Fourth, Fifth, Sixth and Seventh years: Four years of standard medical curriculum.

One course in English, not necessarily a First year course, will be required at some time during the first four years.

Elective courses must be selected so as to meet the requirements for the degree of B.Sc.

B. FOUR-YEAR COURSE IN MEDICINE

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Associate Dean, Room 609, McIntyre Medical Sciences Building, or from the Registrar's Office.

As the number of students in each class is limited, application should be made early and in any case not later than January 1. Each application must be accompanied by a non-returnable fee of \$5.00 in the form of a cheque or money order payable to McGill University.

A fee of \$50.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Associate Dean, when possible, is advisable.

REQUIREMENTS FOR ENTRANCE

 (a) Total Academic Credits: The minimum requirement for admission to the medical course is the satisfactory completion of three full years of study in a recognized college or Faculty of Arts and Science in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. Preference is given to those who have completed the work leading to a B.A. or B.Sc. degree.

(b) Scientific Requirements: In the scientific branches, certain subjects are specifically required:

Chemistry, two full courses, including General Chemistry and Organic Chemistry, with laboratory work.

Physics, one year with laboratory work.

Biology, or *Zoology*, one year with laboratory work. (Of this, a half year must consist of Zoology.)

(c) Cultural Requirements: These must be selected in such a way as to be in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. These would commonly include credits in English Literature and Composition and in Mathematics. It is advisable for each applicant to present evidence of such preparation.

(d) All candidates for admission to the Medical Faculty are required to take the Medical College Admission Test conducted by The Psychological Corporation (304 East 45th Street, New York, N.Y. 10017) or furnish an explanation of why they are unable to do so. This test should be taken not later than the spring of the Third year of the college course.

2. In selecting courses, in addition to the specific requirements listed above, an intending medical student should plan his pre-medical course as a whole, and in accordance with a definite educational objective. Emphasis should be laid on the broad educational value and the intellectual training afforded, rather than on the factual content of such pre-medical curricula; the student is therefore advised to plan his course in such a way as to provide more than elementary training in some definite field of learning which appeals to him; this major field may be selected from the Natural or the Social Sciences or the Humanities. Certain subjects which though not essential have been found valuable in medical study, and which may be included as electives if the curriculum in the major field permits, are Psychology, Sociology, and Genetics.

In general, students are advised not to anticipate medical school courses in Physiology, Histology, Bacteriology, and Biochemistry at the expense of a fundamental training as outlined above.

On the other hand, for students who desire a preparation in excess of the minimum requirements, a considerable degree of specialization in the sciences, such as an Honours degree, or a Master's degree, in Physics, Chemistry, Biochemistry, Biology, Physiology, or Bacteriology, may prove to be desirable and advantageous.

The students' attention is called to the memorandum printed in the Announcement of the Faculty of Arts and Science for the guidance of those who wish to enter Medicine.

EQUIVALENT STANDING

A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official Statement of his preliminary education and of the medical course he has followed and the standing he has obtained. This should be accompanied by a calendar of the Medical School in which he has studied, giving a full statement of the course of study, and by a certificate of moral character and conduct.

The equivalent courses of study in schools recognized by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the recognized school, but the student may be required to pass such examinations, individual or comprehensive, as may be required by the Faculty.

REGISTRATION

Students in the Faculty of Medicine will register at the Sir Arthur Currie Memorial Gymnasium on Friday, September 1 or Tuesday, September 5, 1967. Those who register late will be required to pay a late registration fee of \$5.00 if they register during the first week of the session and \$10.00 if they register during the second. The fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

FEES

The University reserves the right to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions described in the General Announcement.

UNIVERSITY FEES

1.	COMBINED COURSE IN SCIENCE AND MEDICINE	118
	First, Second and Third years \$70	0.00
	TOURTH TO SIATH VEGIS	5.00
01 1	Seventh year	1810
2.	Four-Year Course in Medicine	0.00
	I list to I lilit years	0.00
	Tourth year	5.00
3.	REPEATING STUDENTS	
	Students repeating a year pay full fees.	
4.	AD EUNDEM FEE	
	Students entering any year above the First, pay a special ad eundem	0.00

GENERAL REGULATIONS

 Students entering the University for the first time are required to pay their fees either by mail or in person at the Accounting Office. The first instalment is due within 10 days after registration, the second instalment before January 15, 1968.
 A late payment fee of \$5.00 is charged for payment after the specified dates. 2. Students who have completed one or more years and intend to register in the succeeding year must pay one half of the total sessional fee by mail or in person to the Accounting Office before Agust 31, 1967, otherwise they will not be permitted to register. Instructions for paying fees in advance will be mailed to all upper year students, either with their Reports of Sessional Standing or a short time later. Students who have been notified by the University of the award of a scholarship, bursary or student loan, and who require this for payment of the first instalment of fees, must obtain from the Student Aid Office, McGill University, a Permit to Delay Payment of Fees.

The second instalment is due January 15, 1968. A late payment fee of \$5.00 is charged for payment after the specified dates.

3. Students registering late must pay their fees at the time of registration, failing which they become subject to the late payment fee and the provisions of the following paragraph:

As soon as possible after the prescribed dates for the payment of fees the Chief Accountant will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

All fees are payable in Canadian currency.

For further information and for a list of special fees see the General Announcement.

MICROSCOPES

Each student on beginning his studies is required to provide himself with a first-class microscope for laboratory and private study throughout his course. The Medical Faculty has examined a large number of student monocular microscopes and has agreed upon specifications which it regards as best suited to student requirements. Copies of these specifications are circulated by the Dean's Office to all students entering the Faculty of Medicine.

The University does not rent microscopes to medical students.

BOARD AND RESIDENCE

For details of board and residence and an estimate of expenses, see the General Announcement.

HEALTH SERVICE

For details of the Health Service and Medical Examinations see the General Announcement.

COURSES FOR THE DEGREE OF M.D., C.M.

The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including

(a) four years of medical study in the University leading to the degree of M.D., C.M.; and

(b) one year of interneship in an approved hospital.

While the Faculty's administration exercises a general supervision of arrangements for interneships, the Faculty of Medicine assumes no responsibility to provide an interneship for any student.

A certificate that his medical education is completed and that he is eligible to sit for the examination of a licensing board shall not be issued to any graduate until the University is in possession of satisfactory evidence that he has completed the full requirements.

In the First year the session continues until the end of June, and in the Second and Third years it continues until the middle of June. The final year is completed in time for the degree of M.D., C.M. to be awarded at the regular University Convocation at the end of May.

The arrangement of the principal subjects of instruction is usually as follows:

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FIRST SESSION

Anatomy (including Embryology), Histology, Physiology, Biochemistry, Child Development and Human Relations, Introduction to Medicine, General Pathology, History of Medicine.

Elective Programme

Starting with the First-year class in the Fall of 1967, an expanded elective programme is to be introduced allowing students to choose subjects which they will study in depth.

The programme will require an increase in the length of session.

SECOND SESSION

Central Nervous System (Anatomy, Neuroanatomy, Neurophysiology, Psychology), Medical Microbiology, Laboratory Diagnosis, Medicine, Surgery, Obstetrics, Epidemiology and Health, Pharmacology, Psychiatry, Special Pathology, Radiology, History of Medicine.

THIRD SESSION

Epidemiology and Health, Medicine, Surgery, Obstetrics and Gynaecology, Medical Jurisprudence, Neurology and Neurosurgery, Paediatrics, Psychiatry, Ophthalmology, Oto-laryngology, Radiology, Anaesthesia, Electives.

FOURTH SESSION

Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Paediatrics, Ophthalmology, Oto-laryngology, Radiology, Therapeutics.

EXAMINATIONS

The examinations taken within the Medical Faculty are divided into two groups, namely major examinations and minor examinations. Major examinations are the final examinations in Anatomy (Embryology), Histology, Physiology, Biochemistry, Pharmacology, Medical Microbiology, Special Pathology, Epidemiology and Health (Third year), Paediatrics, Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Central Nervous System.

The examinations in Medicine, Surgery, Obstetrics and Gynaecology, and Psychiatry at the conslusion of the Third Session are ranked as major examinations, even though they are not the final examinations in these subjects.

Minor examinations include the final examinations in General Pathology, Laboratory Diagnosis and examinations preliminary to the final major examinations.

A student who fails in any major examination will be required, before he sits a supplemental examination, to present to the Dean's office from the senior professor of the Department concerned a certificate that the student has taken sufficient extra tuition as would indicate that he has reviewed the subject and is a suitable candidate for the supplemental examination.

There is a strict difference between the importance of a major and a minor examination. If a student fails in the supplemental of a major examination, there are definite restrictions as shown below, but if he fails in the supplemental of a minor examination he is permitted to carry conditions as shown below.

A student is not allowed supplementals in three major examinations in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student is not allowed supplementals in two major and one minor examination in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

Unless the Promotion Committee finds special mitigating circumstances, a failure in the supplemental of a major examination will require the student to repeat his course (repeat his year), and no student may repeat such a course more than once. Any student who fails in the supplementals of two major examinations in any one year shall be required to retire without the privilege of further supplementals.

A student who fails in the supplementals of three or more minor examinations in any one session must repeat this session or may be asked to retire, as may be decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

A student who fails in the supplementals of not more than two minor examinations may proceed with other subjects in the following year, carrying such subjects as conditions, but may not sit any subsequent major examinations until the conditions have been removed, nor may he carry more than two conditions at one time.

All conditions must be removed by the end of the first term (November) in each session when additional supplemental examinations will be held. Failure in any of these will require the student to revert to his previous year and to repeat the courses of the Winter and Spring terms.

A student in his final year may take a supplemental examination in one subject only, but must present a certificate from the senior professor of the Department concerned that he has taken extra tuition in this subject in one of the teaching hospitals of the McGill Faculty of Medicine. If he should fail in this supplemental examination, he must repeat the year of study and pass all the major examinations at the completion of the session.

A student in his final year who fails in two subjects will not be permitted supplementals but must repeat the year or retire, as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student will not be allowed to repeat a year more than once nor may he repeat a subsequent year if such repetition has been due to failure in examinations, except on special recommendation of the Promotion Committee, acting upon the motion of the representatives on the committee of the Department concerned.

A student who has been permitted to repeat his year must attain an overall average of 65% in order to continue his course.

Examinations, tests, reviews, etc. will ordinarily be held during the session only at the end of the twelve week terms. It is understood that such examinations, tests or reviews are conducted for the benefit of the student in order that he may have experience in the requirements of the sessional examinations, and further, that he and his teachers may know he is progressing in his studies. In the Fourth year final examinations will be held at the end of each rotation.

There shall be two Promotion Committees. The First Committee shall consist of representatives of the subjects of Anatomy, Biochemistry, Histology, Physiology, Pharmacology, Medical Microbiology and Pathology appointed by the Dean, and the Dean ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in their First and Second years.

The Second Committee shall consist of representatives of the Departments of Epidemiology and Health, Medicine, Surgery, Obstetrics and Gynaecology, Paediatrics and Psychiatry appointed by the Dean, and the Dean ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirement in their Third and Fourth years.

All results of examinations will be given out by the Dean's office, after they have been passed upon by the Promotion Committee. It is an absolute rule that no examination results shall be communicated by any other channel.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent. There can be no appeal from this decision.

GRADING

At the conclusion of each course, students are graded in three groups as follows: U = Upper Third of class, M = Middle Third of class, L = Lower Third of class.

In addition students who do not obtain a clear passing mark are graded as either D (doubtful) or E (failure).

By regulation of the Faculty of Medicine, a student is not permitted more than one "D" grade in the examinations of a single year. In the presence of other "D" or "E" grades all "D" grades are automatically converted into failures by the Promotion Committees.

The grade assigned to a student is based primarily upon the results of the Final Examination, but the instructor also takes into account the record of the work done throughout the course.

The quality of the written language used by a candidate is taken into account in determining his standing in all examinations.

REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

- 1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.
- 2. He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than nine months each in this University or in some other university, college or school of Medicine, approved by this University.
- 3. No one is permitted to become a candidate for the degree who has not attended at least two full sessions at this University.
- 4. Every candidate for the degree must have passed all the required examinations in the subjects comprising the Medical course.
- 5. He must have attended the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University and the practice of the Montreal Children's Hospital; and must have acted as clinical clerk in Medicine, Surgery, Paediatrics and Psychiatry and have fully reported upon the prescribed number of cases.

- 6. He must also have attended the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.
- 7. Every candidate must also have administered anaesthetics, under direction, at least six times, and have assisted at not less than six autopsies.

REQUIREMENTS FOR LICENCE

Candidates accepted for admission are reminded that it is their personal responsibility to ensure that they fulfil all the licensing requirements of the country in which they intend to practise medicine. A University degree does not confer the right to practise. In each province of Canada, in each one of the United States and in all other countries the authority to license is vested in a licensing body which has its own special laws and requirements. In many cases a special standard of general education is insisted upon before beginning the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained.

Candidates accepted for admission should therefore communicate as soon as possible with the licensing body of the country in which they intend to practise and obtain from that licensing body the necessary instructions.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards as follows:

QUEBEC - Dr. A. Roy, 1896 Dorchester Blvd. West, Montreal 25, P.Q.

ONTARIO - Dr. J. C. C. Dawson, 64 Prince Arthur Ave., Toronto 5, Ont.

NEW BRUNSWICK — Dr. John R. Nugent, 112 Carleton St., Saint John, N.B. Nova Scotia — Dr. M. R. Macdonald, Victoria General Hospital, Halifax, N.S.

PRINCE EDWARD ISLAND — Dr. R. G. Lea, 170 Fitzroy St., Charlottetown, P.E.I.

Manitoba — Dr. M. T. Macfarland, 201 Kennedy St., Winnipeg 1, Man.

ALBERTA - Dr. W. Bramley-Moore, 9901 - 108th Street, Edmonton, Alta.

Saskatchewan — Dr. G. W. Peacock, 932 Spadina Crescent E., Saskatoon, Sask.

BRITISH COLUMBIA — Dr. W. G. McClure, 1807 West 10th Avenue, Vancouver 9, B.C.

NEWFOUNDLAND -

DOMINION REGISTRATION

In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board to the effect that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, 77 Metcalfe Street, Ottawa 4, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education

on production of the McGill Matriculation certificate. Certificates of this University for attendance at lectures, practical work, and clinics are also accepted by the various examining boards in Great Britain.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London,

W.1, England.

GRADUATE COURSES LEADING TO DIPLOMAS IN THE CLINICAL DEPARTMENTS OF THE FACULTY OF MEDICINE

The Faculty of Medicine conducts graduate courses leading to Diplomas in Anaesthesia, Neurology and Neurosurgery, Psychiatry, Radiology and Urology.

ENQUIRIES

Initial enquiries and enquiries of a general nature should be addressed to the Associate Dean (Graduate Studies and Research) of the Faculty of Medicine.

Enquiries about the details of individual Diploma Courses should be addressed to the Chairman of the Department concerned.

REQUIREMENTS FOR ENTRANCE

The minimum requirements for entrance to a Diploma Course are (a) a degree from an approved Medical College or School and (b) at least one year's interneship. Details of the requirements are set forth under the individual Diplomas.

Credit may be given for study completed elsewhere than at McGill University, but to qualify for a Diploma, the student must spend at least two years of graduate study and training in a clinical department of the Faculty of Medicine of McGill University.

APPLICATION FOR ADMISSION

Application forms may be obtained from the Executive Secretary of the Faculty of Medicine or the Chairman of the Department concerned. The completed form should be submitted by the candidate to the Chairman of the appropriate Department. If the application is approved by the Department, this form is then sent to the Dean of the Faculty of Medicine for his approval.

FFFS

There is a registration fee of fifteen dollars to be paid each year on registration except when the student is enrolled in the Faculty of Graduate Studies and Research.

Certain of the Diploma Courses require the payment of fees in addition to the annual registration fee. Detailed information concerning these fees may be obtained by writing to the Chairman of the Department concerned.

REGISTRATION

The various Diploma Courses in the clinical departments of the Faculty of Medicine lead to the award of diplomas by McGill University. Every student enrolled in such a course must therefore be registered as a student of McGill University.

On beginning the actual course of study leading to a Diploma the candidate must complete three copies of the Sessional Application Form. These are obtainable from the Secretary of the Faculty of Medicine or the Chairman of the Department concerned. These forms, completed by the student in triplicate, are submitted to the Chairman of the Department for his signature and then to the Dean of the Faculty of Medicine for his signature. One of the three forms will be retained by the Dean and the other two are to be taken by the candidate to the office of the

Registrar of McGill University. Following registration at the Registrar's Office the candidate must proceed to the Cashier's Department to pay such fees as may be required. After registration and payment of fees have been completed the student returns one copy of the form to the Chairman of the Department and keeps the other.

These procedures of completion of the Sessional Application Form in triplicate, with signing by the Chairman of the Department and the Dean, registration at the office of the Registrar, and payment of fees must be carried out annually at the beginning of each year of the Diploma Course. If the student has been posted to an out-of-town centre for the session involved, registration forms will be mailed to him by the Registrar, on request.

The final date for registration is October 2. If a candidate is permitted to begin a Diploma Course later than October 2, registration must be carried out within one month of the commencement of the course.

If, during his academic year, the student is enrolled in the Faculty of Graduate Studies and Research, he must complete the procedures described above in addition to those required by the Faculty of Graduate Studies and Research, except that a registration fee for the Diploma Course is not required for that particular year.

It is the responsibility of the student to ensure that the Sessional Application Forms are completed and that registration and payment of fees are carried out.

ENROLMENT AS PARTIAL STUDENT IN FACULTY OF GRADUATE STUDIES AND RESEARCH

In the case of a student who is not proceeding to an M.Sc. or Ph.D., but for whom the committee in charge, on the recommendation of the tutor, considers it important that the student should spend some time in study in one of the medical sciences, individual arrangements will be made by the Chairman of the Department, either directly or through the student's tutor with the Chairman of the Medical Science concerned. Such students will be enrolled in the Faculty of Graduate Studies and Research and will be governed by the rules and regulations of this Faculty in regard to fees, etc., applicable to partial students.

COURSES OF INSTRUCTION

DEPARTMENT OF ANAESTHESIA

Professor — R. G. B. GILBERT (Chairman).

Wellcome Research Professor — K. KRNJEVIC.

Associate Professors - G. FRED BRINDLE, A. B. NOBLE.

Assistant Professors - P. R. BROMAGE, W. G. CULLEN, G. ELLISON, R. Ferguson, A. Galindo, S. Kovachev, P. Otton, D. J. Power, W. E. B. Scott, J. B. I. Sutherland, J. E. Wynands.

Lecturers — H. F. Don, E. M. Dunkley, G. S. Fox, A. Joyal, A. Matzko, A. W. McDonald, D. J. L. McWatt, A. Pace-Floridia, F. A. Robillard, J. R. Rosales, C. A. Sheridan, F. R. H. Wrigley.

Demonstrators — H. Bowman, H. E. Brown, M. Burfoot, W. Farley, D. A. Firth, D. Gillies, S. W. Larking, M. Morris, A. N. Mungall, P. QUAN.

UNDERGRADUATE COURSES

A student in Medicine, before reaching that part of the curriculum which deals with Anaesthesia, will have acquired during the earlier years at the University some incomplete, but important knowledge of Anaesthesia while taking courses in Anatomy, Physiology, Biochemistry, Pharmacology and Pathology.

In the Third year he attends a series of twelve lectures given by a senior anaesthetist. At these sessions, he will be instructed in the physio-pathology of patients undergoing anaesthesia and surgery, the basic properties of anaesthetic drugs and the principles underlying anaesthetic techniques, which will serve as a background for the administration of anaesthesia.

In the Fourth year a period of one week is spent in the operating room. The student is assigned to an anaesthetist each morning from 8-12 while in the afternoon from 1:30 - 2:30 he attends a didactic session concerning the procedures he has witnessed.

Also in this year the one month "Period of Election" may voluntarily be spent in the Department of Anaesthesia of one of the University hospitals. This presents opportunity for additional supervised clinical work in the operating room, the recovery room and the intensive care unit.

GRADUATE AND CONTINUING EDUCATION COURSES

Diploma in Anaesthesia (Dip. Anaes.)

Minimum prerequesites for entry to the Diploma Course in Anaesthesia are a degree from an approved Medical College or School and one year's rotating interneship in an approved hospital. Foreign students may be subject to further requirements such as the E.C.F.M.G. depending on circumstances.

Applications for admission should be addressed to the Chairman, Department of Anaesthesia, McGill University, 3801 University St., Montreal.

The course is of three years duration. Up to one year of credit may be given for work done elsewhere at a centre approved by the Chairman. Candidates, once enrolled, may under certain circumstances spend one of the three years at another centre, provided this meets with the approval of the Chairman of the Department. In all instances, to qualify for the Diploma the student must spend at least two years of graduate study in the Department of Anaesthesia of McGill University.

Each student is assigned for clinical work to one of the participating hospitals. Having spent six or twelve months in the hospital to which he was first posted, the student is then rotated every six months through a number of hospitals within this framework. Some of the hospitals are specialized while others are general.

During each appointment of six months, the Residents are directed by the staff members of the particular hospital where that residency is being served. Seminars are held weekly according to a programme which is the same for all hospitals. Some departments hold sessions which are set aside for review of the literature, while others have special sessions for the discussion of interesting cases. All the hospitals have excellent library facilities, and the libraries of the medical faculty are also accessible.

On the first Monday in each month there is a departmental meeting moderated by the Chairman. There may be presentation of cases of interest, recent advances or a guest speaker.

Every month a written examination, which refers to the seminar subjects of the previous four weeks, is set for all residents.

Postgraduate Basic Science Series

The Postgraduate Basic Science Series of lectures for all medical and surgical

disciplines is followed where the topics are of importance to the specialty. In addition, four series of lectures are given, Pharmacology or Biochemistry being taken before Xmas and Anatomy or Physiology after Xmas.

The granting of the Diploma is subject to complete satisfaction in all the clinical rotations and Applied Basic Science courses. The Chairman and Chiefs of Clinical Departments reserve the right to dismiss at any time all those whose work is unsatisfactory or who appear to have chosen the wrong medical specialty.

The Wellcome Anaesthesia Research Department, established jointly by the Wellcome Trust and the University, operates in association with the Department of Anaesthesia. It offers both a basic study of anaesthetic mechanisms, and courses of study leading to post-doctoral degrees.

Annual Advanced Course in Angesthesia

This course is held during the month of May and is open to those sitting examinations in the fall and to those already in anaesthetic practice. At this course, the Wesley Bourne lecturer participates in the teaching sessions.

Guest Professor

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Annually, a Visiting Professor spends a week in the Clinical Departments. Further information on any aspect of this Department can be obtained by writing to the Chairman, Department of Anaesthesia, McGill University.

DEPARTMENT OF ANATOMY

Professors — C. P. LEBLOND (Chairman), S. M. BANFILL, Y. CLERMONT.

Associate Professors - N. J. NADLER, D. G. OSMOND.

Assistant Professors — B. Kopriwa, E. J. H. Nathaniel, B. L. Thompson.

Lecturers — E. P. Aston, J. E. Blundell, A. N. Freedman, S. C. Harvey, A. Morton, J. R. Shea, Jr., J. Ward, H. Warshawsky, E. W. Workman.

REQUIRED COURSES

1. Gross Anatomy.

Senior Fellow - J. COURVILLE.

First year: Dissection and lectures cover the gross anatomy of the body except the Head, Neck and Brain. The course includes Embryology and Surface and Radiological Anatomy.

Second year: Dissection and lectures on the Head, Neck and Brain. This course is followed by 2. Introduction to the Central Nervous System, listed below, and a combined examination is held at the end of the year.

2. Introduction to the Central Nervous System. For Second year students and conducted with the co-operation of the Departments of Neurology and Neurosurgery, Physiology and Psychology. This course is listed under the Department of Neurology and Neurosurgery as 2A.

3. Applied Anatomy. Designed for graduate students.

Texts: J. C. B. Grant, A Method of Anatomy, 6th ed. (Williams and Wilkins, 1958). D. F. Davies and F. Davies, Gray's Anatomy, 33rd ed. (Longmans, 1962); J. C. B. Grant, An Atlas of Anatomy, 5th ed. (Williams and Wilkins, 1962); J. T. Aitken et al., A Manual of Human Anatomy, 5 vols. (Livingstone, 1956-58); A. B. Appleton et al., Surface and Radiological Anatomy, 4th ed. (Heffer, 1958).

Introduction to Medicine. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry and Physiology, in rotation.

ELECTIVE COURSES

The Department provides, as far as material will permit, facilities for advanced work or revision. The Chairman of the Department should be consulted by anyone wishing to undertake work of this nature.

4. Advanced Neuro-Anatomy. Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton. The class is limited to ten. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.

Microscopic Anatomy

REQUIRED COURSE

6. Histology. The study of the cytology and structure of tissues and organs. Texts: A. W. Ham, Histology, 5th ed. (Lippincott, 1965); W. Bloom and D. W. Fawcett, A Textbook of Histology, 8th ed. (Saunders, 1962).

Embryology

REQUIRED COURSE

8. The Study of Human Developmental Anatomy. This course is integrated with 1. Gross Anatomy.

Texts: J. Langman, Medical Embryology (Williams and Wilkins, 1963); L. A. Arey, Developmental Anatomy, 6th ed. (Saunders, 1954); W. J. Hamilton et al., Human Embryology, 2nd ed. (Heffer, 1952).

For graduate courses, see the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF BIOCHEMISTRY

Professors — K. A. C. Elliott (Chairman), O. F. Denstedt, M. Saffran, P. G. Scholefield.

Associate Professors — E. A. Hosein, Rose M. Johnstone, D. Rubinstein, S. Solomon, J. H. Spencer.

Assistant Professors — Eleanor M. Harpur, M. Manning, R. L. Momparler, S. C. Sung, A. R. Wasserman, T. E. Webb, T. Wood.

Senior Biochemists in Other Departments

E. H. Bensley (Experimental Medicine), Marion K. Birmingham (Psychiatry), Rhoda Blostein (Experimental Medicine), R. H. Common (Agricultural Chemistry), D. E. Douglas (Medicine), L. Goodfriend (Experimental Medicine), J. Gordon (Surgery), R. Harpur (Parasitology), R. Hobkirk (Experimental Medicine), L. Lloyd (Nutrition), Catherine MacPherson (Psychiatry), A. Hope McArdle (Surgery), Hanna M. Pappius (Neurology and Neurosurgery), M. Richter (Experimental Medicine), A. Sehon (Chemistry), T. Sourkes (Psychiatry), B. Weigensberg (Pathology), L. S. Wolfe (Neurology and Neurosurgery).

FIRST YEAR

Biochemistry. Three hours lectures and four hours laboratory per week.

THIRD YEAR ELECTIVE

Research in Biochemistry and Physiology. A limited number of students may take Biochemistry or Physiology as their elective subject in the Third year. These students will be given the opportunity to participate in research projects in the Department.

OPTIONAL ADDITIONAL COURSES

For students who are interested in additional studies in Biochemistry the current graduate courses in Biochemistry are recommended. (See the Announcement of the Faculty of Graduate Studies and Research.) For undergraduate courses in the Faculty of Arts and Science see the Announcement of that Faculty.

DEPARTMENT OF EPIDEMIOLOGY AND HEALTH

Professors — J. C. McDonald (Chairman), P. E. ENTERLINE.

Associate Professors — M. BECKLAKE, A. D. McDonald.

Assistant Professors — M. A. Bain, M. J. Ball, J. G. Lohrenz, P. V. Pelnar, C. E. Rossiter.

Lecturers — D. C. Bews, D. S. Fleming, I. Horowitz, F. Kaufman, B. Pollak, M. G. Townsend.

FIRST YEAR

1. Health and the Community.

24 lectures.

SECOND YEAR

2A. Epidemiology.

24 lectures.

2B. Industrial Medicine.

12 lectures.

2C. Statistics in Medicine.

12 lectures followed by laboratory or seminar sessions.

THIRD YEAR

3A. Field Survey Course.

Four afternoons a week for three weeks. Students undertake epidemiological surveys in the community in small groups.

3B. Medical Jurisprudence.

12 lectures by invited speakers mainly from the Faculty of Law.

HISTORY OF MEDICINE

Associate Professor — D. G. BATES (Chairman).

REQUIRED COURSES

- 1. Introductory Course (First year). A series of 12 lectures to provide an historical orientation to the student entering upon the study of medicine.
- 2. History of Medicine (Second year). A series of 12 lectures providing a survey of the history of relationships between medicine and general culture.

DEPARTMENT OF INVESTIGATIVE MEDICINE

Professor — J. S. L. BROWNE (Chairman).

Associate Professors — C. J.-P. GIROUD, N. KALANT.

Assistant Professors — A. CARBALLEIRA, J. STACHENKO.

Research Associate — S. SOLOMON.

Honorary Lecturers — J. GENEST, G. LEMIEUX, J. MARC-AURELE,

W. J. NOWACZYNSKI.

Lecturers — C. Branchaud, C. I. Chappel, B. Murphy, E. J. Pinter, R. Schucher, R. Wolfe.

The Department offers courses leading to the M.Sc. and Ph.D. degrees in the Faculty of Graduate Studies and Research and provides research facilities for these students or for other persons proceeding to graduate degrees, diplomas or for other qualified individuals. The Department is also prepared to make arrangements to offer elective courses for Medical undergraduate students.

The courses and the direction of research in this department are given in close collaboration with the Department of Experimental Medicine and members of either department give lectures and direct the research of graduate students registered in the other.

Students may work either in the Medical Building or in one of a number of hospitals depending on the type of work done (clinical or laboratory) or upon the individual directing the research. Part of the function of the department is the correlation of clinical investigation being done at various hospitals.

Students holding either the M.D. or B.Sc. degree or their equivalents may enter the department provided that their standing is acceptable. For the list of courses and further details see the *Announcement of the Faculty of Graduate Studies and Research*.

DEPARTMENT OF MEDICINE

Professors — D. G. Cameron (Chairman), J. C. Beck, R. V. Christie, L. Lowenstein, M. McGregor.

Associate Professors — B. A. Cooper, G. A. Copping, G. E. Craig, N. R. Eade, R. R. Forsey, S. O. Freedman, C. A. Goresky, G. W. Halpenny, W. H. P. Hill, M. M. Hoffman, C. H. Hollenberg, J. G. Howlett, A. L. Johnson, L. G. Johnson, M. Kaye, J. L. McCallum, E. McGarry, R. D. McKenna, J. M. McKenzie, E. A. S. Reid, S. R. Townsend.

Assistant Professors — M. Aronovitch, C. M. Ballem, F. M. Bourne,
L. Brunton, J. H. Burgess, C. M. Comty, R. F. P. Cronin,
J. H. Darragh, N. M. K. deLeeuw, J. B. Dossetor, J. Dupré, P. Gold,
J. L. Hutchison, G. E. Joron, F. Kalz, D. G. Kinnear,
A. Knight, B. A. Levitan, A. D. MacDonald, D. J. MacIntosh,
K. R. Mackenzie, J. F. Meakins, I. G. Milne, W. H. Palmer,
J. A. P. Paré, C. J. Pattee, J. S. Polson, D. Rubinstein, J. R. Ruedy,
P. Schopflocher, P. Sekelj, L. Shapiro, Y. Sinai, J. A. Sosa,
K. A. Sowden, C. H. Stacey, P. B. Stewart, D. Stubington,
P. P. Telner, A. T. Thom, D. L. Thomson, R. D. Wilkinson.

Lecturers — A. Angel, E. Arendt, A. Aronoff, C. S. Barker, R. G. Baxter, J. O. W. Brabander, P. Bradley, J. L. Brandt, L. A. Caswell, Wm. Cohen, K. G. Dawson, R. E. Donevan, P. A. Edwards, S. L. Eidinger, P. A. Flint, W. Gerstein, A. Gold, A. Gordon, T. R. Hale, R. G. M. Harbert, J. A. M. Henderson, A. G. Kendall, L. Kovacs, A. W. Lapin, W. Leith, C. C. MacDonald, J. R. Martin, W. E. H. Mason, A. Miller, P. Mlynaryk, L. Perelmutter, R. E. G. Place, T. J. Quintin, J. A. Shanks, R. L. Stanford, T. J. Sullivan, H. A. Warner, P. G. Weil, J. Wener, D. H. Woodhouse, L. A. Wright.

Demonstrators — J. R. Albert, D. Barza, L. E. Cassidy, P. Chesney,
M. S. Cohen, S. R. Cooper, F. A. D'Abadie, H. Desjardins-McMillan,
C. M. Flint, J. G. Hellstrom, M. A. Hickey, H. Z. Hollinger,
L. J. Korenberg, M. Kovalik, J. Krupey, M. Kunstler,
W. A. R. Laing, I. Lapin, R. N. MacDonald, N. MacIntosh,
D. G. Mackay, D. M. Marcus, H. F. Mizgala, T. Monks, M. B. Nestel,
G. Piasecki, L. Redmond, S. L. Richardson, J. Rubin, R. Shulman,
P. Sommerfreund, V. Susset, V. M. Whitehead, I. Winkler,
D. Wiselberg, J. C. G. Young.

Experimental Medicine

Professors — D. V. Bates, E. H. Bensley, B. Rose, S. Solomon, Eleanor Venning.

Associate Professors — M. BECKLAKE, R. HOBKIRK, B. KOVACS, D. B. TONKS.

Assistant Professors — N. R. Anthonisen, R. Blostein, J. H. Dirks, H. G. Friesen, H. L. Goldsmith, L. Goodfriend, L. Gyenes, G. Klaasen, P. T. Macklem, J. Milic-Emili, A. D. Rotenberg, A. Saha, W. M. Spence, J. I. Watson.

Lecturers — B. Bain, J. Jepson, A. U. Sargent, D. B. Shaw, S. Solomon, M. Vas.

Demonstrators — W. M. Fam, M. H. Gault, E. Gonda.

N.B.: See the Announcement of the Faculty of Graduate Studies and Research.

THE UNDERGRADUATE CURRICULUM IN THE DEPARTMENT OF MEDICINE

FOREWORD

The object of the following courses is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease, to afford a knowledge of the technique, and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students, teachers, and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy, and biochemistry with clinical medicine is emphasized — not only in the pre-clinical years, but later in hospital and laboratory — thus affording students a modern scientific medical training. The importance of regarding the patient as a person is emphasized throughout.

Unusual facilities are afforded at the Royal Victoria Hospital and at the Montreal General Hospital where there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

REQUIRED COURSES

SECOND YEAR

Course II 1 — Integration of Physiology, Biochemistry and Anatomy with Medicine.

Time — Last term of Second year: three lectures a week.

Place - Medical Building.

Subject Material — This course covers in a systematic manner the deviations from the normal of the physiological and biochemical functions. These are correlated so as to explain symptoms and signs which may be found on physical examination as detected by clinical methods dealt with in Course II 2. This course is so interpreted as to give the student a panoramic view of these disturbances with a proper perspective.

Course II 2 — A Practical Course in Clinical Methods.

Time - Third term of Second year.

Place — The Royal Victoria, Montreal General, and Queen Mary Veterans' Hospitals.

Subject — Practical instruction 6 hours a week on Normal and Abnormal Physical Signs.

Course II 3 — Laboratory Diagnosis.

Time — Last term of Second year.

Place — Medical Building.

Subject — Instruction and practice 2 periods a week in microscopy as applied to clinical medicine.

Dr. Lauder Brunton and Assistants

THIRD YEAR

Course III 4 — Case Reporting.

During the trimester in Medicine students will be assigned patients in the wards. They will be required to write case histories, make a general examination, note progress, and do such laboratory investigations as are within their scope and

have access to all other Laboratory and X-Ray findings. Teaching Fellows will be available to assist students in this work. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

Course III 5 — Clinico-Pathological Conference.

Time — Weekly during the medical term.

Place — The Royal Victoria and the Montreal General Hospitals.

Course III 6 — Integration of Physiology, Biochemistry and Anatomy with Medicine — a continuation of course II.

One lecture a week for 2 terms, two lectures a week for the third term.

Course III 7 — Therapeutics. A course of lectures on the principles of therapeutics and on the treatment of various diseases for which clinical material is not readily available.

FOURTH YEAR

Course IV 8 — Case Reporting. An effort is made to enable the student in the Fourth year to take an active part in the care of the patient, both in the wards and in the Out-door Clinics. One month will be spent on the wards and one month in the "Comprehensive Clinic" of the outpatient department. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

Course IV 9 — Clinical Pathological Conference.

Time — Once a week during the medical term.

Place — The Royal Victoria and the Montreal General Hospitals.

For graduate courses in Medicine, see under Department of Investigative Medicine in this Announcement and under Department of Experimental Medicine in the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

Professors — R. W. REED (Chairman), G. G. KALZ, J. W. STEVENSON.

Associate Professors — C. A. Butas, P. M. Cooke, B. H. Matheson, S. I. Vas, W. Yaphe.

Assistant Professors — H. Abramovitch, E. C. S. Chan, P. Gill, L. Kapica, E. Mankiewicz, A. M. Masson, G. Webster.

Lecturers — S. Nommik, R. Silov, E. Wood.

Teaching Fellow — H. G. ROBSON.

All lectures and laboratory periods are held in the Pathological Institute.

20. Medical Microbiology.

Second year. This course deals with the general principles of medical microbiology and immunology. Both lectures and laboratory are concerned with the anatomy and physiology of infectious agents, theories of infection and immunity and a systematic study of bacteria, viruses, rickettseae, fungi and parasites pathogenic to man.

25. Dental Microbiology.

OTHER COURSES

The Department offers a range of courses leading to the Honours B.Sc. in Microbiology and is well-equipped for graduate research leading to the M.Sc. and Ph.D. Training in clinical microbiology is available in the service laboratories of the Royal Victoria Hospital and the Montreal Neurological Institute located in the Department.

See the Announcements of the Faculty of Arts and Science and the Faculty of

Graduate Studies and Research.

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

Professor of Neurology and Neurosurgery — THEODORE RASMUSSEN (Chairman).

Professor, Neurology — Francis McNaughton.

W. V. Cone Professor of Neurosurgery - WILLIAM FEINDEL.

Associate Professors, Neurology — D. W. BAXTER, D. L. LLOYD-SMITH, PRESTON ROBB.

Associate Professors, Neurosurgery — GILLES BERTRAND, JOSEPH STRATFORD, JOHN BLUNDELL.

Associate Professor, Neurological Radiology — DONALD MCRAE.

Associate Professor, Clinical Neurophysiology — PIERRE GLOOR.

Associate Professor, Neuropathology — GORDON MATHIESON.

Associate Professor, Neurochemistry — LEONHARDT WOLFE.

Associate Professor, Clinical Psychology — Brenda Milner.

Assistant Professors, Neurology — J. B. R. Cosgrove, Irving Heller, Allan Sherwin, W. F. T. Tatlow.

Assistant Professors, Neurosurgery — Charles Branch, Harold Elliott, Henry Garretson, Phanor Perot.

Assistant Professor, Neurochemistry — HANNA PAPPIUS.

 $Assistant\ Professor,\ Clinical\ Neurophysiology -- Roger\ Broughton.$

Lecturers, Neurology — Frederick Anderman, Morrison Finlayson, Bernard Graham.

Lecturer, Clinical Neurophysiology — ISRAEL LIBMAN.

Lecturer, Neuroanatomy — ALLAN MORTON.

Demonstrators, Neurology — N. Buendia, A. Eisen, P. Grisham, R. Nelson, K. Sachder.

Demonstrators, Neurosurgery — J. Davis, M. Heuff, F. Leblanc, B. Weir.

Demonstrator, Neuropathology — W. McCANN.

Demonstrator, Electroencephalography — Lewis Henderson.

Research Associate — Y. Lucas Yamamoto.

Fellows of the Montreal Neurological Institute — S. Ambhanwong, G. Ashby, N. Buendia, J. Bulcke, J. Callahan, G. Chong, F. Coceani, P. Corsi,

A. DAVID, J. DAVIS, D. DERRY, C. DILA, J. DREIFUSS, M. DROLET,
A. FISEN, A. FSPINA. P. GRISHAM M. HEIJER, V. HIMPHERYS

A. Eisen, A. Espina, P. Grisham, M. Heuff, V. Humpherys, F. Leblanc, M. Lechter, A. Lorenzo, R. Marino, G. Matthews, Y. Michaud, V. Montpetit, J. Murphy, W. McCann, C. Needham,

Y. MICHAUD, V. MONTPETIT, J. MURPHY, W. McCann, C. Needham, R. Nelson, S. Nutik, C. Pace-Asciak, A. Roberge, R. Romero, K. Sachdev, Z. Sayeed, L. Stern, Y. Ushio, F. Valle, C. Vera, B. Weir,

J. Woods, A. Wong.

SECOND YEAR

2A Introduction to the Central Nervous System. Combined course given by the Departments of Anatomy, Neurology and Neurosurgery, Physiology and Psychology. Weekly lectures, laboratory work and clinical demonstrations during the second term and two lecture hours per week during the third term.

Professors McNaughton, Gloor, Courville and Staff

- 2B Instruction in Clinical Examination of the Nervous System. Given in conjunction with the Department of Medicine in the third term. (Course II 2)
- 2C Neuropathology. Given in conjunction with the Department of Pathology in the third term.

 Professor Mathieson
- 2D Applied Neurophysiology (Department of Medicine, Course II 1). Six lectures.

 Professors Rasmussen, McNaughton and Staff

THIRD YEAR

3A Clerkship in Neurology and Neurosurgery. Four afternoons per week for three weeks, at the Montreal Neurological Institute.

Professors Rasmussen, McNaughton and Staff

- 3B Survey Lectures, Diseases of the Nervous System. 12 lectures given during the first term.

 Professors Rasmussen, McNaughton and Staff
- 3C Clinics and Conferences in Conjunction with the Departments of Medicine and Surgery.

FOURTH YEAR

Clinics and Conferences in Conjunction with the Departments of Medicine and Surgery.

ELECTIVE COURSES

Neuroanatomy.

- 600. This course is given in combination with course 2A "Introduction to the Central Nervous System."
 - 601. Additional graduate seminars will be held co-ordinated with Course 411.
 - 602. Preparation of a term paper on a neuroanatomical subject as arranged.
 - 603. Advanced Neuroanatomy for selected group; times to be arranged.

 Professors Courville and McNaughton

Neurophysiology.

- 610. Lectures and examination together with undergraduate course Neurology and Neurosurgery 2A "Introduction to the Central Nervous System."
- 611. Weekly seminars and demonstrations co-ordinated with Course 2A (4 months, beginning in January). Mondays, 4:30 to 6:00 p.m.
- 612. Under exceptional circumstances, a paper on a neuro-physiological subject may be written by special arrangement as a substitute for 610.

Professors Gloor and Wolfe

620. Colloquium in Clinical Neurology.

1 hour weekly, clinics and lectures, Wednesdays, 5:00 p.m. M.N.I. (9 months).

Staff and Visiting Lecturers

630. Seizure Mechanisms and Cerebral Localization: Clinical Electroencephalographic, and Roentgenographic Conference.

Alternate Thursdays, 4:00 to 5:00 p.m.

Professors Rasmussen, Gloor, McRae and Milner

640. Outline of Neurochemistry.

Instruction in Neurochemistry in addition to that provided in course B-2 may Professor Wolfe be obtained by special arrangement.

Neuropathology.

- 650. Six or twelve months laboratory work in Neuropathology. Professors Mathieson and Carpenter
- 651. Conference in Neuropathology, alternate Thursdays, 4 to 5 p.m. Professors Mathieson and Carpenter
- 652. Introduction to Histopathology of the Nervous System. A short basic course for a limited number. By special arrangement with Professor Mathieson.

For graduate credit, courses 650 and 651 are required. Under special circumstances written and/or oral examinations may be substituted for 650 and 652.

Neurological Radiology.

- 660. Lecture demonstrations (3 months beginning in September). Mondays 4:30 to 6:00 p.m.
 - 661. Colloquium, 1 hour weekly (9 months) Mondays, 9:00 a.m. Professor McRae

Electroencephalography.

- 670. Laboratory work in Electroencephalography (minimum of six months with active participation, seminars, lectures and conferences).
- 671. Lecture series and conferences in Electroencephalography. Fridays, 4:30-6:00 p.m., October and November, January and February. Professors Gloor, Lloyd-Smith, Broughton and Andermann

Diploma in Neurology (Dip. Neurol.)

Minimum prerequisites for entry to the Diploma Course in Neurology are a degree from an approved Medical College or School and one year's interneship in an approved hospital.

Applications for admission should be addressed to the Chairman, Department of Neurology and Neurosurgery, McGill University.

The course is of four years' duration and consists of the following units:

A. One year of work in one of the related basic sciences, such as Neuropathology, Neurophysiology (including E.E.G.), Neuroanatomy, Neurochemistry, Neuroradiology, Endocrinology, etc. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery, or in some other department of McGill University on the recommendation of the Chief of the Service and with the approval of the Chairman of the Department of Neurology and Neurosurgery. Preparation of a thesis or a paper approved for submission for publication by the Laboratory Chief and the Professor of Neurology and Neurosurgery (Dr. Rasmussen), will be required. This year may be used for work towards the M.Sc. degree in the Faculty of Graduate Studies and Research of McGill University (see the Announcement of the Faculty of Graduate Studies and Research for requirements and registration procedure).

B. Six months in Psychiatry in the Department of Psychiatry at McGill University. (Note: Under special circumstances the candidates may substitute six months in the Department of Psychiatry in some other accredited hospital or university

or additional training in Neurology or Medicine.)

- C. Six months in Neurosurgery at the Montreal Neurological Institute. (Note: Under special circumstances a candidate may substitute neurosurgical training received in the neurosurgical department of some other accredited hospital or university or additional training in Neurology or Medicine.)
- D. Two years in clinical Neurology, one of which must be at the Montreal Neurological Institute. The other year may be taken at other neurological centres with the approval of the Professor of Neurology and Neurosurgery and on recommendation of the Chief of the Neurological Service.

Before receiving the Diploma the candidate must successfully pass an oral examination in clinical Neurology and Neurosurgery.

Further information may be obtained by writing the Chairman, Department of Neurology and Neurosurgery, McGill University.

Diploma in Neurosurgery (Dip. Neurol. Surg.)

Minimum prerequisites for entry to the Diploma Course in Neurosurgery are a degree from an approved Medical College or School and one year's interneship in an approved hospital.

Applications should be addressed to the Chairman, Department of Neurology and Neurosurgery, McGill University.

The course is of four years' duration and consists of the following units:

- A. One year of work in one of the related basic sciences, such as Neuropathology, Neurophysiology (including E.E.G.), Neuroanatomy, Neuroradiology, Endocrinology, etc. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery, or in some other department of McGill University on the recommendation of the Chief of the Service and with the approval of the Chairman of the Department of Neurology and Neurosurgery. Preparation of a thesis or a paper approved for submission for publication by the Laboratory Chief and the Professor of Neurology and Neurosurgery (Dr. Rasmussen), will be required. This year may be used for work towards the M.Sc. degree in the Faculty of Graduate Studies and Research of McGill University (see Announcement of the Faculty of Graduate Studies and Research for requirements and registration procedure).
- B. Six months in clinical Neurology at the Montreal Neurological Institute. (Note: Under special circumstances, credit for six months of clinical Neurology in some other accredited hospital or university department of Neurology or additional training in Surgery, Medicine or Neurological Surgery may be accepted.)
- C. Two and a half years in clinical Neurosurgery at the Montreal Neurological Institute and associated hospitals.

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Note: Either unit A or C must be carried out in the Department of Neuropathology at the Montreal Neurological Institute.

Before receiving the Diploma the candidate must successfully pass a final oral examination on clinical Neurology and Neurosurgery.

Further information may be obtained by writing the Chairman, Department of Neurology and Neurosurgery, McGill University.

For graduate courses in Neurology and Neurosurgery, see also the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

Professors — G. B. MAUGHAN (Chairman), K. T. MACFARLANE.

Associate Professors — W. R. FOOTE, J. P. A. LATOUR, T. PRIMROSE, G. A. SIMPSON, F. J. TWEEDIE.

Assistant Professors — M. HENDELMAN, J. L. MACARTHUR, J. H. ROUTLEDGE, D. W. SPARLING, M. H. V. YOUNG.

Lecturers — P. R. Blahey, H. B. Bourne, Grace Donnelly, Simon Gold, J. S. Henry, Jr., E. A. MacCallum, Harry Oxorn, P. C. Tremblay, R. H. Usher.

Demonstrators — G. H. Arronet, J. E. Coffey, J. R. Dodds, W. D. Fraser, C. C. Lindsay, J. R. O'Brien, R. M. Parsons, R. M. H. Power,

L. D. RHEA, D. E. R. TOWNSEND.

Jr. Teaching and Administrative Assistants — P. D. DESJARDINS, E. C. TUCKER.

Undergraduate Course

The course is designed to impart a fundamental knowledge of the processes of human parturition, gynaecology and the care of the new-born. The student is introduced to the subject in his Second year. Thereafter in both his Third and Fourth years, intensive teaching is carried out using to the full the facilities of the Royal Victoria Montreal Maternity Hospital and to a lesser extent the gynaecological wards of the Montreal General Hospital. The Royal Victoria Montreal Maternity Hospital is the largest teaching unit of its kind in Canada and the clinical material to be found in its wards is unsurpassed.

REQUIRED COURSES SECOND YEAR

An introductory course of twelve lectures is given by Professor Maughan during the last term. Following a review of the embryology and anatomy of the female genital tract the particular biochemical and endocrine aspects of the subject are taken up. The course closes with a description of the physiology of pregnancy and labour. Lectures are held in the Medical Building, McGill University.

THIRD YEAR

OBSTETRICS

During this year, twenty-eight lectures are given to teach the fundamentals of pregnancy, labour and the puerperium by the members of the Royal Victoria Montreal Maternity Hospital Staff. Following this series the Montreal General Hospital Staff conduct five lecture classes as an introduction to Gynaecology. Lectures are held in the McIntyre Medical Building, McGill University.

An intensive six weeks of instruction in Obstetrics is given each group of students during the academic year by the Staff of the Royal Victoria Montreal Maternity Hospital. Student groups are further divided into smaller tutorial units so that individual students can be given the greatest opportunity to take part in the practical work of the class.

A total of 30 hours of instruction in small groups is given over to an integrated course of Manikin, physical diagnosis at the bedside and the Clinical Management of individual cases in the wards and case rooms.

A minimum of twelve hours tutorial instruction is offered on the Principles and Theory of Obstetrics.

Six hours of gynaecological colloquia are given by a senior member of the Royal Victoria Montreal Maternity Hospital Staff to augment the gynaecological teaching noted below.

Students are also required to attend Departmental Ward Rounds in the Royal Victoria Montreal Maternity Hospital when interesting cases are discussed and lectures given on the latest advances in the field.

Six classes are given by Doctor G. Nickerson, Paediatrician-in-Chief of the Royal Victoria Hospital and his Staff to introduce the student to the care of the new-born.

Professor Maughan and Staff

GYNAECOLOGY

Two mornings weekly throughout the six weeks are devoted to the teaching of Gynaecology at the Montreal General Hospital. Each teaching day is divided into three parts — (1) student participation groups or outdoor clinic instruction groups, (2) clinical teaching, and (3) didactic lectures. The student participation groups comprise nine periods devoted to the preparation and presentation of an allotted subject from the standard textbooks and current literature, supervised by a member of the teaching staff. The outdoor clinic instruction groups, with two or three students at a time, are intended to teach the techniques and details of gynaecologic examination with an introduction to commonly encountered gynaecologic problems at first hand. The clinical teaching consists of ward rounds, clinical pathological conferences, and the demonstration of minor gynaecologic operative procedures. The didactic lectures cover twelve major topics in Gynaecology.

Professor MacFarlane and Assistants, Montreal General Hospital

FOURTH YEAR

No formal lectures are given during the intensive four week course in Obstetrics and Gynaecology which is held in the Royal Victoria Montreal Maternity Hospital. Students are coached in small groups and will live in the hospital during the course. While living in, they are expected to participate in the work of the delivery rooms, outdoor clinics and wards. The instructors' assessments of the student during this living-in experience contribute towards the grading of the student's final mark.

Forty-four hours of seminar and clinical instruction ensure that the student benefits to the maximum extent from this intensive course.

Professor Latour and assistants also provide eight lecture-demonstrations in Gynaecological Pathology and four hours of clinical instruction in the diagnosis of genital cancer.

Four sessions are devoted to the problems of Fertility and Population Control.

Professors G. B. Maughan, T. Primrose and R.V.M.M.H. Staff

Texts: N. J. Eastman and L. M. Hellman, Obstetrics (Appleton); Jeffcoate, Principles of Gynaecology (Butterworth); F. W. Roques, Diseases of Women, 10th ed. (Arnold, 1959); Harry Oxorn and W. R. Foote, Human Labor and Birth (Appleton, 1967).

Graduate Programme

The Department of Obstetrics and Gynaecology directs a five-year graduate programme involving residency training in a number of English-speaking hospitals in Montreal, with lectures and seminars in both pre-clinical and clinical fields and

opportunities for research. Minimum prerequisites for entry into this programme are a degree from an approved Medical College or School, one year's rotating interneship, and one year of Surgery or half a year each of Surgery and Medicine at the assistant residency level. Further information may be obtained by writing the Chairman, Department of Obstetrics and Gynaecology, McGill University.

DEPARTMENT OF OPHTHALMOLOGY

Professor — J. C. Locke (Chairman).

Associate Professors — S. T. Adams, J. V. V. Nicholls.

Assistant Professors — R. A. BOURNE, L. S. S. KIRSCHBERG, A. J. MCKINNA, S. B. MURPHY, WM. TURNBULL.

Lecturers — H. A. G. DUNCAN, R. W. PEARMAN, R. B. RAMSEY.

Demonstrators — J. B. Conroy, P. L. Davis, J. A. Foreman, E. Gordon, A. B. Leith, J. G. Little, P. Rosenbaum.

Undergraduate Courses

The undergraduate work in Ophthalmology is designed to meet the needs of a well-trained general practitioner and embraces the following courses:

SECOND YEAR

1. Routine Examination of the Eye. The various tests used in routine examination of the eye are demonstrated. Instruction in the use of ophthalmoscope is emphasized.

Five hours.

2. Pathology of the Eye. Six hours: two periods of three hours each.

THIRD YEAR

1. Lectures to the Entire Class. A survey of the entire field designed to furnish a background of essential information for the clinical work.

Twelve hours.

- 2. Practical Ophthalmoscopy. Montreal General and Royal Victoria Hospitals.
- 3. Elective Course in Ophthalmology. This intensive four-week course is given three times during the latter half of the Third year. The number of students in any four-week period is limited to two.

The classes include attendance at clinics, ward rounds and seminars; periods in the eye operating room; preparation of an assigned topic requiring consultation of current literature.

FOURTH YEAR

1. Practical Clinical Ophthalmology. Cases from the eye outpatient and indoor services are presented and discussed. Emphasis is on ocular problems that are of greatest moment in general practice.

Nine hours.

Texts: Francis H. Adler, Textbook of Ophthalmology, 7th ed. (Saunders, 1962); J. H. Allen, May's Manual of the Diseases of the Eye, 23rd ed. (Williams and Wilkins, 1963).

References: W. S. Duke-Elder, Textbook of Ophthalmology, 7 vols. (Mosby, 1932-54); Eugene Wolff, Anatomy of the Eye and Orbit (Blakiston, 1954); Eugene Wolff, Pathology of the Eye, 3rd ed. (Blakiston, 1951); Francis H. Adler, Physiology of the Eye, 3rd ed. (Mosby, 1959).

Graduate Programme

The Montreal General and Royal Victoria Hospitals each conduct graduate programmes of residency training with scheduled lectures, seminars, case presentations and ward rounds. These programmes prepare candidates to meet the requirements for Fellowship of the Royal College of Surgeons of Canada and also the American Board of Ophthalmology. Detailed information concerning this programme may be obtained by writing the Ophthalmologist-in-Chief of each hospital.

DEPARTMENT OF OTO-LARYNGOLOGY

Professor — H. E. McHugh (Chairman).

Associate Professors — D. G. Doehring, R. P. Gannon (Experimental Oto-Laryngology), E. John Smith.

Lecturers — J. D. Baxter, Arnold Grossman, D. Ling, R. H. McCoy, G. Shimo.

Demonstrators - A. COHEN, R. MCMILLAN, W. H. NOVICK, M. N. LEVITT.

Undergraduate Courses

Instruction in Oto-Laryngology is given to students in the Second, Third and Fourth years and is designed to meet the needs of the general practitioner. The clinical courses are conducted in the wards and outpatient departments of the Montreal General, the Royal Victoria and the Montreal Children's Hospitals. The practical demonstrations are given before small groups of students.

SECOND YEAR

A special demonstration of Ear, Nose and Throat Anatomy on living subjects is given while the students are studying Anatomy of the Head and Neck. Physical diagnosis is also taught in six demonstrations. The students review the anatomy of the ears, nose and throat and are taught to use the special instruments necessary in the examination of these parts.

THIRD YEAR

Clinical instruction in the outdoor clinics and wards is given to small groups in "block time" consisting of consecutive mornings for one week for each group. In addition twelve didactic lectures on Ear, Nose and Throat subjects are given to this class as a whole during the year.

FOURTH YEAR

While on surgical rotation, two students per week spend seven days in Oto-Laryngology where they attend clinics, examine patients under supervision, attend ward rounds, weekly conferences and observe in the operating theatres.

ELECTIVE COURSES

Special arrangements can be made for Elective Courses of one month in this specialty.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF PAEDIATRICS

Professor — ALAN Ross (Chairman).

Associate Professors — D. V. Bates, R. L. Denton, K. N. Drummond, R. B. Goldbloom, D. A. Hillman, A. L. Johnson, C. R. Scriver, E. M. Worden.

Assistant Professors — H. L. Bacal, E. Colle, J. E. Gibbons, E. S. Hillman, G. N. Nickerson, J. H. O'Neill, R. Usher.

Lecturers — P. Beaudry, M. Belmonte, H. R. Brodie, J. S. Charters, D. K. Clogg, J. H. Elder, F. C. Fraser, V. C. Goldbloom, R. Gourdeau, E. Harpur, W. Jegier, S. Pedvis, M. Silverberg, L. Stern.

Demonstrators — H. Brickman, T. A. Cowan, A. H. Eisen, P. Fitzhardinge, D. R. McCrimmon, J. H. V. Marchessault, A. J. Markus, L. Pinsky, P. S. Senecal, H. Surchin, W. W. Tidmarsh, M. B. Wise, I. Wright.

REQUIRED COURSES

1. Lectures:

(a) A series of 6 lecture-demonstrations on Growth and Development in the last term of Second year.

(b) A course of 24 lectures once weekly during the Third year entitled "The Developmental Biology of Paediatrics". The course is designed to stimulate the student's interest in basic science and to direct and apply it to problems of the developing fetus and newborn in preparation for his clinical experience in Fourth year.

2. Diseases of the Newborn: Royal Victoria Montreal Maternity Hospital:

(a) A weekly clinic demonstration to groups of students of the Third year during their obstetrical quarter.

(b) A weekly lecture to groups of Fourth year students during their four weeks in Obstetrics.

(c) Four days of direct contact with normal and abnormal newborn infants during block time teaching in final year.

3. Clinical Paediatrics:

(a) Groups during the final year spend eight weeks largely at the Montreal Children's Hospital as clinical clerks with bedside clinical conferences and, under supervision, caring for patients in the outpatient department.

(b) Normal growth and development, the care and feeding of the normal infant, immunization procedures, and preventive paediatrics are taught at the Child Health Clinic in the Montreal Children's Hospital.

(c) A series of demonstrations to groups of students on the common infectious diseases is given at the Alexandra Hospital as part of the instruction of the final year.

DEPARTMENT OF PATHOLOGY

Strathcona Professor — R. H. MORE (Chairman).

Professors — H. SHELDON, W. M. THURLBECK, F. W. WIGLESWORTH.

Associate Professors — D. S. Kahn, W. H. Mathews, G. Mathieson, W. J. Pirozynski.

Assistant Professors — A. Angel, J. B. Blennerhassett, S. Carpenter, S. Moore, G. Rona, M. A. Simon, B. I. Weigensberg.

Lecturers — J. S. Fawcett, M. A. Finlayson, J. Knaack, J. O. Lough, D. R. Murphy, Paula Schopflocher, H. C. Stary.

Demonstrators — Ilona Kerner, J. P. A. Latour, M. B. Mackenzie, M. R. Reesal, Agnes Rona, J. R. Stuart, D. F. Uphoff.

REQUIRED UNDERGRADUATE COURSES

1. Course in General Pathology (First year):

- 100. Illustrated lectures during the Spring term totalling 36 hours.

 Professor More and Staff
- 101. Practical laboratory classes during the Spring term totalling 72 hours.

 Professor Pirozynski and Demonstrators

2. Course in Special Pathology (Second year):

- 200. Illustrated lectures throughout the Second year totalling 72 hours.
- 201. Practical laboratory classes throughout the Second year totalling 72 hours.
 - 202. Group demonstrations throughout the Second year totalling 72 hours.

3. Course in Applied Pathology (Third and Fourth years):

300. Clinico-pathological Conferences alternate weeks throughout the Third year totalling 54 hours.

400. Instruction in the performance of autopsies with demonstration of autopsy findings during the Fourth year.

Pathological Institute.

Montreal General Hospital.

Montreal Children's Hospital.

Professor Thurlbeck Professor Mathews Professor Wiglesworth

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF PHARMACOLOGY

Professors — M. Nickerson (Chairman), K. I. Melville.

Associate Professors — B. G. Benfey, N. R. Eade, L. E. Francis,
G. E. Joron, B. A. Kovacs, J. R. Ruedy.

New Chairman

Assistant Professors — E. M. KOVACS, D. R. VARMA. Lecturers — F. HERR, J. T. OLIVER, H. E. SHISTER.

The object of the course in Pharmacology is to elucidate the basic principles of the actions of drugs, and thereby lay a sound foundation for drug therapy.

SECOND YEAR

2A. Pharmacology Lectures. The chemistry, metabolism (absorption, distribution and fate), mechanism of action, and therapeutic usage of the various classes of drugs are covered, so that the student may follow development of the subject intelligently.

JOINT PHARMACOLOGY-THERAPEUTIC LECTURES: Twelve one-hour periods dealing with Human Pharmacology, arranged in conjunction with the Department of Medicine in the Teaching Hospitals as an introduction to Therapeutics. Clinical cases illustrating practical application of drug usage in man will be presented.

Two lectures a week during the first term and three lectures a week during the second term, totalling 72 hours.

2B. Pharmacology Laboratory, Demonstrations and Conferences:

PRACTICAL LABORATORY WORK: One two-hour period weekly, totalling 30 hours.

DEMONSTRATIONS: One hour weekly including films, totalling 18 hours. Special demonstrations are given from time to time.

Conferences: During the year four conferences of 45 minutes each and limited to six students, will be arranged. These conferences will replace the regular laboratory periods at the times specified.

2C. Toxicology Lectures. A course of ten lectures devoted to the problems of acute poisoning (occurrence, symptoms, modifying factors, diagnosis and treatment), is given during the third term of the Second year.

ELECTIVES

Suitably prepared students may undertake special research or training projects under the direction of a staff member at any time, by application to the Chairman of the Department.

Advanced courses leading to the degrees of M.Sc. or Ph.D. will be arranged to suit individual cases. See the *Announcement of the Faculty of Graduate Studies and Research*.

DEPARTMENT OF PHYSIOLOGY

Professors - D. V. BATES (Chairman), F. C. MACINTOSH.

Associate Professors — R. I. Birks, J. Q. Bliss, G. Melvill Jones, P. Sekelj, K. G. Terroux.

Assistant Professors — T. M. S. CHANG, R. F. P. CRONIN, D. R. FIRTH, J. MILIC-EMILI, C. POLOSA, E. J. REININGER.

Lecturers — R. P. Gannon, J. S. Kelly, E. Rosenberg, A. Wechsler.

Sessional Lecturers — B. Collier, B. A. Cooper, J. H. Dirks, P. Gold,
E. J. Hinchey, D. Pengelly.

REQUIRED COURSES

FIRST YEAR

Human Physiology.

This is an integrated course of lectures, demonstrations and laboratory work covering the major fields of human physiology. Some emphasis is placed on the clinical implications of basic physiological principles.

Lectures: Three hours a week.

Laboratory: Four hours a week.

Introduction to Medicine.

One hour a week, from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are conducted in turn by the Departments of Anatomy, Biochemistry, and Physiology.

SECOND YEAR

Anatomy and Physiology of the Central Nervous System.

Two hours lectures, two hours laboratory, and one hour demonstration a week, during the second term.

This is one course, given by the Departments of Anatomy, Neurology and Neurosurgery, and Physiology.

ELECTIVE COURSES

Research in Physiology. A limited number of students may take Physiology as an elective subject in their Third year. These students will be given the opportunity of participating in departmental research projects. Summer employment in research laboratories is also available for a limited number of students.

OTHER COURSES

For other undergraduate courses in Faculty of Arts and Science, see the Announcement of that Faculty.

For graduate courses, see the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF PSYCHIATRY

Professors — R. A. CLEGHORN (Chairman), H. LEHMANN, R. B. MALMO, A. E. MOLL, T. L. SOURKES, E. D. WITTKOWER.

Associate Professors — J. Aufreiter, M. Birmingham, H. Caplan, B. M. CORMIER, T. E. DANCEY, H. B. DUROST, P. G. EDGELL, N. EPSTEIN,

B. Grad, V. A. Kral, H. Kravitz, D. J. Lewis, J. G. Lohrenz, A. W. MacLeod, A. M. Mann, H. B. M. Murphy, E. G. Poser,

G. J. SARWER-FONER, M. STRAKER.

Assistant Professors — F. AZIMA, T. A. BAN, S. BARZA, J. BEAUBIEN, C. Bos,

I. S. Disher, N. Greenberg, L. G. Hisey, B. R. Hunt, L. A. Kerwood, E. Kingstone, E. Lester, D. C. Levin, L. Levy, Z. J. Lipowski, F. W. Lundell, A. S. Macpherson, C. MacPherson, H. F. Muller, J. Naiman, S. K. Pande, D. Pivnicki, R. H. Prince, M. S. Rabinowitch, V. M. RAKOFF, A. E. SCHWARTZMAN, S. J. SHAMSIE, J. J. SIGAL,

C. C. SMITH, A. STEWART, G. C. TAYLOR, W. W. WATTERS, J. S. WERRY. S. WILNER.

Lecturers - N. R. Aldous, M. Amadeo, F. G. Aufreiter, H. A. Azim, J. R. Bayne, R. J. M. Boutin, C. Cahill, C. H. Cahn, J. Casselman, J. M. Cleghorn, J. A. Corson, J. Cumberland, L. Dallaire,

H. DAVANLOO, S. DUDEK, W. D. ENGELS, R. B. FELDMAN, K. G. FERGUSON,

K. R. FERGUSON, H. GELBER, H. GRAUER, B. R. J. HARRIS, D. P. HARRIS,

E. S. HEATH, G. F. D. HESELTINE, M. KENNEDY, E. K. KOZANYI, J. L. LAPOINTE, E. LEVINSON, F. H. LOWY, D. J. MCCLURE, J. MACKAY, G. J. MAGUIRE, K. K. MINDE, R. C. MUIR, A. K. MULLER, Y. NERMAN, G. PETERFY, P. D. L. ROPER, J. ST. LAURENT, J. F. SAUCIER,

J. SENDBUEHLER, B. SILVERMAN, R. M. SMITH, L. SOLYOM, S. L. SVED, B. TROSSMAN, G. H. TURCOT, J. R. UNWIN, R. N. WALSH, H. WARNES, G. WEISS, N. WISEBORD.

Demonstrators — H. AST, C. BENIERAKIS, G. BERMAN, S. BIKADOROFF,

C. COHEN, P. CHORAS, R. L. DEVERTEUIL, J. M. DIVIC, J. D. HACKETT, M. Katz, F. Kristof, R. C. McDonald, C. Novella, E. H. Pakes, G. C. Patton, H. Pitts, A. Russell, G. Schneiderman, P. M. Segal, L. Sloman, L. G. Stern, M. Turski, B. Wainrib.

Sessional Lecturer - B. SILVERMAN.

REQUIRED UNDERGRADUATE COURSES

FIRST YEAR

Growth, Development and Human Relationships: A total of 16 hours, the first two being introductory lectures in psychobiology. The remaining hours of the course will include technique of child examination, diagnosis of child psychiatric states, child psychiatric problems as seen in various treatment facilities, including paediatrics outpatient clinic.

Professors Cleghorn, Caplan, Ross (Paediatrics) and Staffs

SECOND YEAR

Two courses of lectures: (a) 12 1-hour lectures on psychopathology; (b) 12 2-hour sessions on psychiatric case studies, with case presentation.

Professors Durost, Lehmann and Staff

THIRD YEAR

Six weeks block teaching to acquaint students with the examination of patients and understanding of some of the major factors involved in abnormal behaviour. Diagnostic procedures, psychotherapeutic and physical methods of treatment, will be among the aspects covered. Students will be provided with tutors on a group basis and will also have more specialized training in the areas of child psychiatry, community psychiatry and mental disorders.

Professors Cleghorn, Moll, Dancey, Durost, Caplan, Silverman and Staffs

FOURTH YEAR

The teaching in this year will be largely focused on clerkship. Students will attend tutorials, ward rounds, seminars, conferences, etc., at the Allan Memorial Institute, Montreal General Hospital and Queen Mary Veterans' Hospital.

Professors Cleghorn, Moll, Dancey and Staffs

GRADUATE COURSES

DIPLOMA IN PSYCHIATRY (Dip. Psychiat.)

Minimum prerequisites for entry to the Diploma Course in Psychiatry are a degree from an approved Medical College or School and one year's rotating interneship in an approved hospital.

Applications for admission should be addressed to the Chairman, Department of Psychiatry, McGill University.

The course is of four years' duration. Credit, not amounting to more than two years, may be given for study completed at other centres prior to enrolment at McGill University. In all instances, to qualify for the Diploma, the student must spend at least two years of graduate study in the Department of Psychiatry of McGill University in Montreal.

The Diploma Course is organized to provide a comprehensive training for those preparing themselves for a career in the field of general psychiatry, and those who wish to proceed to specialized preparation in such fields as child, community, transcultural psychiatry, university teaching and research, or general hospital psychiatry with special emphasis upon psychosomatic work.

The first two years are devoted to establishing a fundamental knowledge of clinical conditions and of general therapeutic procedures. Special emphasis is laid upon psychopathology, psychodynamics and psychotherapy, and upon gaining experience in the full range of diagnostic and therapeutic procedures now in common use in psychiatry.

The last two years of the course provide considerable choice in courses and in training locations to meet the needs of those who wish special advanced experience in the special areas referred to above.

Increasing emphasis is now being placed upon research work. Students showing aptitude and inclination may spend a year either in the laboratories of the Allan Memorial Institute, or as a member of a field group, or on one of the clinical investigative teams at work in the various clinical teaching hospitals of McGill University.

Theoretical instruction and practical experience are closely and continuously integrated and the student is expected not only to participate in, but also to learn how best to use the major teaching procedures such as group therapy discussions, seminars, didactic lectures, case conferences, journal clubs, recorded interviews, as well as the one-way screen and movies.

Extensive use is made of the tutorial method of teaching, particularly in connection with psychotherapy. In each of the four years students are assigned to a tutor who is a member of the attending staff.

In addition to the training areas within the Department of Psychiatry, post-graduate students who have completed not less than two years' training may be assigned to the research teams and groups established in connection with the other clinical centres, where they work under the direction of a senior member of the research staff. Moreover, arrangements are possible with other departments within the University for periods of special study: for instance, with the Montreal Neurological Institute for special instruction and experience in neurology, or with the University Clinic of the Department of Internal Medicine for special advanced work in the psychosomatic field. At least six months' work in a mental hospital will be required.

Students are expected to have sufficient knowledge of English to participate adequately in seminar instruction and to benefit from their clinical experience.

Before receiving the Diploma the candidate must pass an examination during the Second year and again at the end of the Fourth year.

Further information may be obtained by writing the Chairman, Department of Psychiatry, McGill University.

COURSES FOR THE DEGREE OF MASTER IN SCIENCE IN PSYCHIATRY

See the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF RADIOLOGY

Professor — JEAN BOUCHARD (Chairman).

Associate Professors — J. S. DUNBAR, R. G. FRASER, M. LOUGHEED,

D. L. MCRAE, D. J. SIENIEWICZ.

Assistant Professors - R. A. BEIQUE (Physics), B. B. HALE, G. B. SKINNER. Lecturers - NORMAN M. BROWN, B. St. J. BROWN, J. E. CAMPBELL,

F. A. GRAINGER, J. J. HAZEL, F. ROBT. MACDONALD, G. H. MAGUIRE,

C. J. POWEL-SMITH, L. ROSENTHAL.

Demonstrators - W. J. ALEXANDER, J. H. GAGNON, J. D. GIBSON, M. M. GRYMALOSKI, M. J. HERBA, R. O. HILL, J. KISS, P. LACHANCE, H. T. G. MA, M. B. NOGRADY, W. M. ROSS, K. L. VEZINA, R. E. WILSON.

UNDERGRADUATE COURSES

FIRST YEAR

Normal Roentgen Anatomy with special attention to functional changes in the skeletal and the several visceral systems.

In co-operation with the Department of Anatomy Professor Bouchard and Staff

SECOND YEAR

Introduction to Radiology including the basic principles and application of radiation physics, radiation biology and physiology in diagnosis and therapy by means of ionizing radiations.

Professor McRae

THIRD YEAR

(a) Clinical Radiology - a systematic exploration of radiologic evidence of disease and the therapeutic applications of ionizing radiations; weekly conferences while the students are attending Internal Medicine and Surgery in the teaching hospitals.

Professors Bouchard, Sieniewicz, Fraser and Staff

(b) Elective: A tutorial period, with opportunity for the student to explore the radiological features of some special disease, entity or syndrome in one of the Professors Bouchard, Fraser, Sieniewicz and Staff teaching hospitals.

FOURTH YEAR

Clinical Radiology continued in the programme initiated in the Third year while attending Internal Medicine and Surgery with the addition of Paediatrics. Professors Bouchard, Sieniewicz and Dunbar and Staff

GRADUATE COURSES

(a) DIPLOMA IN RADIOLOGY (Dip. Radiol.)

Minimum prerequisites: Degree from an approved Medical Faculty, College or School; one year of general rotating interneship; appointment on the Resident Staff in Radiology of one of the teaching hospitals for this Faculty.

Required Studies: Four years of postgraduate study in Diagnostic and/or Therapeutic Radiology including Radiation Physics, Radiobiology and Pathology in the University and its teaching hospitals.

Advanced credit may be allowed by the Departmental Committee for graduate study in Radiology and/or cognate fields (Internal Medicine, Clinical Surgery or the basic Sciences) in approved institutions or teaching hospitals elsewhere, but not in excess of two of the required four years. Studies pursued in the basic sciences should be of a quality acceptable in partial fulfilment of the requirements for the M.Sc. degree.

In addition to a thorough grounding in general medical radiology, in so far as practicable arrangements may be made for the candidate to pursue studies in the special fields pertinent to his chosen division, such as the diagnostic radiologic interest in neurologic and paediatric diseases or the diagnostic and therapeutic interests of nuclear medicine in the therapeutic division.

Preparation of a scientific paper, under supervision of his tutor or as co-author, will be expected of each candidate.

Both written and oral final examinations are required.

The didactic programme of the Diploma Course and the associated clinical studies are fully accepted à propos the specialist certification by the several qualifying bodies.

Further information may be obtained from the Chairman, Department of Radiology, McGill University.

(b) MASTER OF SCIENCE (M.Sc.)

For information relative to the M.Sc. degree, see Announcement of the Faculty of Graduate Studies and Research or enquire of the Chairman of the Department.

DEPARTMENT OF SURGERY

- Professors Fraser N. Gurd (Chairman), Lloyd D. MacLean, David R. Murphy, H. Rocke Robertson.
- Associate Professors A. R. C. Dobell, J. W. Gerrie, J. R. Gutelius, J. C. Luke, H. S. Morton, H. F. Moseley, J. D. Palmer, H. J. Scott, A. G. Thompson, F. M. Woolhouse.
- Assistant Professors H. E. Beardmore, N. J. Belliveau, P. E. Blundell, W. M. Couper, A. C. Derby, J. C. Dickison, J. A. Drummond, M. A. Entin, R. L. Estrada, L. G. Hampson, I. W. D. Henderson, E. J. Hinchey, A. F. Jones, G. M. Karn, R. N. Lawson, R. C. Long, D. D. Munro, W. L. Ogilvy, H. F. Owen, B. J. F. Perey, D. W. Ruddick, E. J. Tabah.
- Lecturers A. N. Freedman, F. G. Inglis, G. W. Lehman, D. T. Lin, E. D. Monaghan, J. R. Moore, I. Shragovitch, J. A. S. Wilson.
- Demonstrators D. K. Black, L. Drake, J. H. Duff, A. Hreno, P. Madore, K. G. McCulloch, A. P. H. McLean, R. V. Moralejo, F. V. Nicolle, S. Pitzelle, H. Shibata, H. H. Sigman, H. D. Stevens, H. B. Williams, G. K. Wlodek, A. McB. Wright.

DIVISION OF EXPERIMENTAL SURGERY

Professors — Fraser N. Gurd, Lloyd D. MacLean, David R. Murphy. Associate Professor — S. C. Skoryna.

Assistant Professors — G. Bounous, D. M. Edward, J. Gordon, A. H. McArdle, R. M. Preshaw, Edith Rosenberg.

Lecturer — H. F. JEEJEEBHOY.

N.B.: See the Announcement of the Faculty of Graduate Studies and Research.

DIVISION OF ORTHOPAEDIC SURGERY

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Associate Professors - J. E. MILLER, J. G. PETRIE.

Assistant Professors - I. BITENC, R. L. CRUESS, J. M. McINTYRE,

C. L. WILSON, W. E. WILSON.

- A. A. BUTLER, E. C. PERCY, J. L. SHUGAR, R. G. TOWNSEND. Demonstrators - H. F. FARFAN, D. B. FORBES, F. A. H. GREENWOOD. G. R. MURHPY.

DIVISION OF UROLOGY

Associate Professor — K. J. MACKINNON.

Assistant Professors - J. B. Dossetor, S. A. MACDONALD, J. T. MACLEAN, J. SUSSET.

Lecturers — C. A. Moore, J. A. Oliver.

Demonstrators - I. J. DE DOMENICO, N. HALPERN, W. F. LINGARD, D. D. Morehouse, T. Nearing, E. C. Reid, Y. Taguchi.

REQUIRED UNDERGRADUATE COURSES

SECOND YEAR

Surgical teaching begins in the Spring term (12 weeks) of the Second year. In this year special attention is directed to the instruction and training of the student in proper methods of physical examination from the surgical point of view.

2A. A Course of Lectures (12) is given covering the basic principles of Surgery.

2B. Group Classes in the wards of the Montreal General and Royal Victoria and Queen Mary Veterans' Hospitals. At these, small groups of students are instructed in methods of examination as applied to surgery and its allied specialties.

THIRD YEAR

The student comes into a more intimate contact with the patients, and in the surgical term of eight weeks is assigned cases, writes case reports, acts as dresser, and assists at operations. His clinical work is confined to one hospital — either the Montreal General Hospital or the Royal Victoria Hospital.

3A. Discussions concerning material covered in an assigned reading course will be held in the Montreal General and the Royal Victoria Hospitals one day

each week. 3B. Group Ward Classes in the Montreal General and the Royal Victoria Hospitals, five times a week during the term.

3C. Case Reporting. Patients are allotted to students who act as reporters, dressers, and assistants at operations.

FOURTH YEAR

In the Final year the student spends eight weeks attached to the surgical service of a hospital. During four of these weeks the student is required to live in the hospital.

SURGICAL DISEASES OF CHILDREN

Some instruction in the surgical diseases of children is given during the trimester in which the students are assigned to paediatrics at the Montreal Children's Hospital as follows:

4A. Group Ward Classes three times a week throughout the trimester.

In their Final year students attend either the Shriners Hospital or the Montreal Children's Hospital for further instruction in paediatric surgery.

ORTHOPAEDIC SURGERY

Some lectures covering the basic principles of orthopaedic surgery are given in the Second year and members of the Orthopaedic Staffs of the Montreal General Hospital and Royal Victoria Hospital participate in the Second and Third year bedside clinics.

In the Final year seminars are conducted by members of the Orthopaedic Staff.

UROLOGY

In the Final year students are assigned to the Urological Services of the Montreal General Hospital and Royal Victoria Hospital for one week and, in addition to this, ward classes are held three times a week in each hospital.

GRADUATE COURSES

DIPLOMA IN UROLOGY (Dip. Urol.)

Minimum prerequisites for entry to the Diploma Course in Urology are a degree from an approved Medical College or School, one year's rotating interneship in an approved hospital, and two years of training in general surgery or divided between general surgery and pathology or some other basic science.

Applications for admission should be addressed to the Chairman, Department

of Surgery, McGill University.

The course is of three years' duration. The three years are spent as a member of the resident staff in the Department of Urology of the McGill University Teaching Hospitals. Throughout the three-year period, during the academic sessions, lectures or seminars are held one night each week. Through the co-operation of the Department of Medicine each candidate spends four months in the Renal Laboratory.

No examination is held. The Diploma is recommended on the satisfactory

completion of the three year training programme.

For other graduate courses in Surgery, see the Announcement of the Faculty of Graduate Studies and Research.

BUILDINGS

THE McINTYRE MEDICAL SCIENCES BUILDING

This building contains the Offices of Administration, the Medical Library, the Osler Library of the History of Medicine, the Departments of Biochemistry, History of Medicine, Pharmacology and Physiology and a number of special research units.

THE STRATHCONA MEDICAL BUILDING

This building contains the Department of Anatomy, the Department of Investigative Medicine and the Faculty of Dentistry.

THE PATHOLOGICAL INSTITUTE

This building was opened for use in October 1924. The construction of a seven-storey wing, completed in June 1966, provided a total area of approximately

140,000 square feet of laboratory and teaching facilities. The Institute is situated on the north-east corner of University Street and Pine Avenue adjacent to the Montreal Neurological Hospital and the Royal Victoria Hospital. It is occupied by the Departments of Microbiology and Immunology, of Epidemiology and Health, and of Pathology. The building has extensive facilities for teaching, research and diagnosis.

THE MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. The construction of the McConnell Wing, opened in 1953, approximately doubled both the clinical and laboratory space. With excellent equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neurology. system, it houses the University Department of Neurology and Neurosurgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine and the Montreal Neurological Hospital for the care of patients with organic diseases of the nervous system. In addition to wards, operating rooms, and laboratories for treatment and study of diseases of the nervous system, the building provides facilities for graduate study and research in the related fields of basic science.

THE ALLAN MEMORIAL INSTITUTE

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building was reconstructed to permit of the establishment of a fifty-bed unit, together with extensive research laboraories, and was officially opened July 12, 1944.

In 1946 the first day hospital in the world was opened at the Institute and in

1953 a fifty-bed wing was added.

In 1963 a research and training building was added by McGill University thus providing one of the most extensive and modern research areas.

Both undergraduate and postgraduate teaching are carried on at the Institute.

THE DONNER BUILDING

The Donner Building for Medical Research, adjacent to the Strathcona Medical Building, was completed in September 1948. Its erection was made possible through the generosity of William H. Donner of Philadelphia, the late founder of the international Cancer Research Foundation, who provided the funds necessary for the construction of a building entirely devoted to medical research. It has recently been renovated through the generous assistance of the Donner Foundation.

The building houses the Maxwell Lauterman Laboratories for Surgical Research and the Gastrointestinal Research Institute, and also provides facilities for

many types of medical and surgical investigation.

HOSPITALS

The following hospitals and institutions are at the disposal of the teaching staffs and students for clinical and pathological study:

Royal Victoria Hospital Montreal General Hospital Montreal Children's Hospital Oueen Mary Veterans' Hospital

Alexandra Hospital for Infectious Diseases

Douglas Hospital

Royal Edward Chest Hospital Royal Victoria Montreal Maternity Hospital

Montreal Neurological Hospital

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical Faculty. These affiliated hospitals contain over 6,000 beds.

The Royal Victoria Hospital comprises the following units under one administration:

The Main Building;

2. The New Medical Wing; 3. The New Surgical Wing;

The Ross Memorial Pavilion for private patients; The Women's Pavilion — Royal Victoria-Montreal Maternity; 5.

The Allan Memorial Institute. 6.

The total bed complement is 1,018, with 115 bassinets. Admissions total over 24,000 and confinements are in excess of 3,800 a year. There are more than 125,000 visits annually to the Outpatient Department. The University Clinic was established lished in 1924 and has facilities for both clinical laboratory work and research.

Post-mortems are conducted in approximately 60 per cent of the deaths.

The number of resident physicians is 212.

The Montreal Neurological Hospital, consisting of the hospital activities of the Montreal Neurological Institute, is situated across the street from the Royal Victoria Hospital and constitutes the Department of Neurology and Neurosurgery for this hospital. There are 135 beds, including a paediatric unit, for the care and investigation of patients with organic diseases of the nervous system. There are approximately 2500 admissions yearly, about half to the Neurological Services and half to the Neurosurgical Services. Approximately 1100 surgical procedures are carried out each year.

The Royal Victoria-Montreal Maternity Pavilion, with 197 beds for obstetrical and gynaecological cases. In this institution there are 117 teaching beds and an organized outpatient service which is of the greatest benefit to the undergraduate student. In a typical year, the obstetrical service cares for over 3,800 confinements in the Hospital. In the gynaecological section, over 2,800 cases are admitted during

There are 22 resident physicians.

The Montreal General Hospital has a bed complement of 750 for the treatment of acute diseases. In a typical year, there are approximately 20,000 admissions and 150,000 consultations in the Outpatient Department. The resident and interne staff numbers 130.

The "Montreal General" was founded in 1821; two smaller buildings downtown had preceded it in 1816 and 1819. In age, therefore, it is not the oldest hospital in Canada, but its record in clinical teaching is one of the longest on the North American continent.

From the time the Hospital was opened, its staff began to arrange for students and, in 1823, they opened the first Medical School in Canada, the Montreal Medical Institution, with 25 students. Teaching was carried on partly at the Hospital. It was this School which agreed to form the Medical Faculty of McGill University in 1829; the beginning of a long and intimate association between the Hospital and the University.

The present buildings on Cedar Avenue were occupied in 1955.

The Montreal Children's Hospital has 367 beds (65% public beds), and, in a typical year, admits 12,000 patients. The attendance at its outdoor department totals over 136,000 clinic visits. This hospital admits all classes of cases of disease in children except pulmonary tuberculosis and the communicable diseases, and enables students to get a broad concept of paediatrics.

There are 235 autopsies in a typical year, representing 90% of all deaths.

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The number of resident physicians is 100.

Queen Mary Veterans' Hospital has 700 active treatment beds and 1,200 beds at Ste. Anne's Hospital, Ste. Anne de Bellevue for rehabilitation, geriatrics and psychiatry.

The hospital was taken over by the Department of Veterans Affairs in August 1946, with affiliations of consulting, attending and resident staff which were set up in collaboration with the Medical Schools of McGill University and l'Université

Admissions are over 7,500 a year and include not only veterans, but serving members of National Defence, Merchant Navy, Immigration, R.C.M.P., personnel returning from the Tropics, and groups from other Government Departments.

The outpatient attendance is approximately 100,000 annually and the post-

mortem rate is about 85%.

Active treatment and research are maintained in all the usual fields and, in addition, there are special departments: Paraplegics, Plastic Reconstruction and Prosthetics (construction, alterations and fitting of artificial limbs).

The resident physician appointments number 74 and 6 of these rotate through

Ste. Anne's Hospital.

All specialties, except Obstetrics and Paediatrics, are covered.

The Alexandra Hospital for Infectious Diseases, opened in 1906, with modern wards, cubicles and equipment is regularly attended by students who receive demonstrations on the essential features of all the common acute infectious diseases and tuberculosis.

There are three wards for the treatment of tuberculosis in children and tuberculous meningitis in adults and children. There are 150 beds (including 50 for tuberculosis) and the average yearly admissions range between 800 and 1,000.

There is a resident senior physician and two junior rotating physicians.

Douglas Hospital was opened in 1890. It is a psychiatric hospital for the treatment of emotional and mental diseases and with its 1,760 beds serves mainly the English-speaking communities of the Province of Quebec. There are also facilities for adolescent behaviour problems and children with mental disorders.

The hospital is directed by a private Board of Governors but admits non-paying patients on the basis of a contract with the Provincial Government. There are approximately 1,700 admissions per year and in the After Care Clinic about 2,000

patients are seen during the year.

The medical staff consists of 22 psychiatrists, 6 physicians and 22 psychiatric residents who are registered with the McGill Diploma Course in post-graduate psychiatry; some 20 consultants in the various medical specialties also visit the

hospital regularly.

Third year undergraduate medical students of McGill University spend three weeks on the wards of the hospital as part of their psychiatric teaching. The hospital provides clinical instruction and training of nurses, nursing assistants, occupational therapists, psychologists and social workers, and field work experience for post-graduate training of professional personnel. An active research programme is carried on in the basic and clinical aspects of human behaviour.

The Royal Edward Chest Hospital has as its objectives the study, prevention and treatment of Tuberculosis and diseases of the chest. It operates on an Out-patient Department and In-patient basis. The Out-patient Department includes an Anti-Tuberculosis Dispensary and a Chest Clinic. The Hospital contains a 100-bed Non-Tuberculous Chest Condition Unit and a 24-bed Tuberculous Unit. Its facilities include Operating Rooms and Laboratories and it maintains an active research programme. Residency appointments number 10.

THE MEDICAL LIBRARY

Medical Librarian — RODOLPHE C. LAVERGNE.

The Library contains approximately 100,000 volumes. It is located on the second, third and fourth floors of the McIntyre Medical Sciences building. The entrance to the Library is on the third floor, near the elevators. On this floor are found the circulation desk, the reference department, the catalogue, the book collection, part of the journal collection and the study rooms. The second and fourth floors hold mostly journals and additional seating. The Library offices are located on the second floor.

The chief value of the Library is in its periodical collection. About 2,000 journals are received currently in almost all languages. The book collection is especially noteworthy in the ophthalmological section due in large measure to many gifts from the late Dr. Casey A. Wood.

The Library is for members of the teaching staff and students of the Faculty and of the whole University, and for research workers and doctors in the city. An extensive interlibrary loan service throughout the country is maintained.

The Library is open during the academic session from Monday to Friday, 9 a.m. to 10 p.m. September to March; 9 a.m. to 11 p.m. April to mid-June; Saturday 9 a.m. to 5 p.m. After June 15 the hours are 9 a.m. to 5 p.m. Monday to Friday, closed Saturday.

There are also small libraries and collections of books and journals located in several Departments of the Faculty.

THE OSLER LIBRARY OF THE HISTORY OF MEDICINE

The two-storey wing extending out from the third and fourth floors of the McIntyre Medical Sciences Building is the Osler Library and is entirely devoted to the medical-historical collection. Besides library offices and stack space, this Library consists of two reading rooms, the Wellcome Camera, accessible through the Main Reading area of the Medical Library on the third floor, and the Osler Room beyond the Camera.

The collection, consisting of about 25,000 volumes in the history of medicine and its sciences, has, as a nucleus, the 8,000 volumes bequeathed to McGill by one of its most famous pupils and teachers, Sir William Osler. It is especially this portion which is rich in 15th, 16th, 17th, and 18th century medical books. In addition, all books printed before 1851 have been transferred from the Medical Library to this collection. The rest of the collection has been purchased by the Osler Library itself, especially since 1957, a generous grant from the Wellcome Trust having made active growth of the Library possible. The Library is constantly adding to the collection, especially new books on the history of all aspects of medicine and medical people.

medical people.

All books in the collection are available for use within the Library and the vast majority of them are loanable. Undergraduates and all interested persons may use the Library except as restricted by the attending Library staff. For the holdings of the Library, users are urged to consult the card catalogue, and the book catalogue entitled Bibliotheca Osleriana, both of which are in the Wellcome Camera. At present, the collection is not completely catalogued anywhere else in the University.

MEDICAL SOCIETIES

McGILL MEDICAL STUDENTS' SOCIETY

The Society is an association of all registered medical students. Acting through

its Council, which is composed of elected and appointed student representatives, the Society performs two main functions:

1) to represent the medical student body in all its dealings with the Medical Faculty, and

2) to regulate all Society affairs, e.g., Medical Ball, Banquet, Essay Competition.

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In performing its first function, the Society leaders act as a liaison between faculty and students on all matters of mutual interest and concern. Recent items of mutual concern have been scheduling of Fourth year studies, hours of library operation, and the status of McGill medical students in the Province of Quebec.

The second main function involves the organization of the medical student extracurricular life as it exists. Besides sponsoring social functions, the Society publishes a quarterly journal, *The McGill Medical Journal*, which contains reports of student research and scholarly articles on many aspects of medicine. The Society also publishes a monthly *Bulletin* to inform students of current news and upcoming events, and an annual yearbook, *The Speculum*.

Active participation in Society affairs is one of the best ways of complementing the medical school experience.

ALPHA OMEGA ALPHA HONOUR MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate, and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic careers, have shown promise of development and have attained honour rank. They are eligible for election in the Third and Fourth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

OSLER SOCIETY

The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes students from each class in the faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.

POST DOCTORAL FELLOWS 1965-66

Name	Graduated From	Year	Hospital or Department	Registered for Grad. Degree
ABBASSI, V. ACKMAN, C. F. D. ADAIR, R. K. ADAMS, J. R. AGRAWAL, S. N. ALEYASSINE, H.	Tehran McGill McGill McGill Lucknow Lausanne	1960 1960 1964 1954 1958 1962	R.V.H. R.V.H. M.G.H. Anatomy R.V.H. McIntyre	Ph.D. M.Sc. Ph.D. M.Sc. Ph.D.

			Hamital	Registered
	Graduated		Hospital	for Grad.
Name	T	Year	Or Department	Degree
			IN THE RESERVE THE PROPERTY OF	
ALEXANDER, R. M.	Melbourne	1961	Anatomy	Ph.D.
ALLEN, A. C. AMALRAJ, S. S.	McGill Madras	1959	R.V.H.	W.C.
ANDERMANN, E.	McGill	1957 1963	R.V.H. M.C.H.	M.Sc.
ANJILVEL, G. M.	Madras	1954	R.V.H.	Ph.D.
ANJILVEL, L.	Madras	1955	Pathology	A ATOMICO
ANUMAN-	1	1,00	T delicios j	
RAJADHON, Y.	Bankok	-	M.G.H.	M.Sc.
AZZOPARDI, A.	Malta	1962	Pathology	Ph.D.
BARTHOLOMEW, C. F		1960	R.V.H.	V SICHESTO
BASS, H.	Pennsylvania	1960	R.V.H.	M.Sc.
BASTOMSKY, C. H.	Witwatersrand	1957	R.V.H.	M.Sc.
BEAUDOIN, J. G.	Montreal	1963	R.V.H.	M.Sc.
BELKHODE, M. L.	Nagpur	1963	McIntyre	HARROW I. I
BENGZON, A.	Philippines	1961	M.N.I.	HIMAL, H
BHAVNANI, B. R.	Bombay	1965	R.V.H.	DL D
BOISVERT, M. BRADLEY, P. A.	McGill McGill	1961 1963	R.V.H. R.V.H.	Ph.D.
BROWN, H. C.	Oueen's	1962	M.G.H.	M.Sc.
BRUINVELS, J. J.	Utrecht	1965	A.M.I.	WI.SC.
BULCKE, I. A. L.	Louvain	1966	M.C.H. & M.N.I.	HUEST THE
BURFOOT, M. F.	Oxford	1958	McIntyre	Ph.D.
BURFOOT, M. F. CASEY, J. H.	Queensland	1956	R.V.H.	-V 101
CELESIA. G.	Genoa	1959	M.N.I.	NATIONAL PROPERTY.
CHABOT, J. A.	Laval	1960	M.N.I.	KESSTAP
CHATTERJEE, S.	Calcutta	1958	J.G.H.	M.Sc.
CHENG, S. F.	Taiwan	1957	R.V.H.	M.Sc.
CHEVALIER, L. M.	Toronto	1957	M.C.H.	KUDO, C.
CHO, K. O.	Soo-Do	1949	M.C.H.	LADAGA,
COLLIER, B.	Leeds	1961	Physiology	W.C.
CURTIS, J. D.	Western Ontario McGill	1964 1964	R.V.H. M.C.H. & R.V.H.	M.Sc.
DALLAIRE, L. DAYAL, V.S.	Patna	1964	R.V.H.	Lett, a. K.
DIONNE, R. C.	Dalhousie	1962	R.V.H.	LESVERVE,
DE NICOLA, A. F.	Buenos Aires	1961		
DERRY, D.	U.B.C.	1962	M.N.I.	D -01 5/8/1
DESJARDINS, P. D.	Montreal	1961	R.V.H.	M.Sc.
DIXON, J.	London	1961	M.C.H.	I HOLIOI
DOLLFUSS, R. E.	McGill	1962	R.V.H.	M.Sc.
DONG, K. T.	Seoul	1950	R.V.H.	LUSIETN
DOUGLAS, F. G. V.	Toronto	1961	R.V.H.	M.Sc.
DREIFUSS, J. J.	Geneva	1965	M.N.I.	MAGEEL, I
DUPLANTIS, F.	Montreal	1961	M.N.I.	IV AUDIN NIM
EBE, M.	Tohoku	1952 1959	M.N.I. R.V.H.	M.Sc.
EL-HILALI, M. M. ESPINA, A.	Cairo Venezuela	1939	M.N.I.	IVI.SC.
FAM, W. M.	Cairo	1956	R.V.H.	Ph.D.
FERNANDEZ, E. I.	St. Thomas	1958	R.V.H.	-
FONG, H. C. P.	Philippines	1957	M.C.H.	CI THE LOCAL
FORBÉS, P. A.	Manchester	1958	M.C.H.	THE SHAPE
FORREST, A. L.	Dundee	1959	R.V.H.	MEDGER
FOURNIER-			R. R. ministration States	MITMAKE
MASSEY, G. G.	Montreal	1959	Epidemiology	Ph.D.

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			Hospital	Registered for
	G 1 4-1		or	Grad.
The state of the s	Graduated From	Year	Department	Degree
Name	rrom	1 cui	DER R. M. Mells	LEXAN
GAGNAN-	DIBAA 1001	1057	R.V.H.	PINE DE LA
BRUNETTE, M.	Montreal	1957 1959	R.V.H.	ANLIAM
GENENDER, L. J.	McGill	1959	M.C.H.	MALIGIA
GOLDMAN, H.	Basle Budapest	1951	R.V.H.	
GONDA, A.	Birmingham	1958	R.V.H.	M.Sc.
GOODHEAD, B. GOLDBERG, N. J.	McGill	1955	J.G.H. & Donner	Ph.D.
GOPALKRISHNA, S.	Osmaina	1958	M.C.H.	M.Sc.
GRANGER, P.	Montreal	1965	Hotel Dieu	Ph.D.
GREGORY, A. J.	Montreal	1959	Hotel Dieu	Ph.D.
GUZMAN, C. A.	Toronto	1958	R.V.H.	SINOTE
GUZMAN, C. A. GUZMAN, D.	McGill	1960	M.N.I.	IO TUAN
HAIBACH, H.	Dusseldorf	1960	R.V.H. R.V.H.	M.Sc.
HART, I. R.	Glasgow	1960 1963	R.V.H.	M.Sc.
HIMAL, H. HEELEY, A. F.	Ottawa	1960	A.M.I.	
HEELEY, A. F.	Wales	1950	M.C.H. & R.V.H.	Ph.D.
HEINER, D. C.	Pennsylvania Manitoba	1962	Pathology	M.Sc.
HOGG, J. C.	Utrecht	1957	M.N.I.	
HOMMES, O. R. HOROWITZ, I.	McGill	1962	Epidemiology	M.Sc.
HSIEH, S. H. T.	Taiwan	1961	Q.M.V.H.	M.Sc.
HUGHES, G. N. F.	Manitoba	1960	M.G.H.	M.Sc.
JOLY, J. G.	Montreal	1965	St. Luc	M.Sc.
KALDERON, A. E.	Istanbul	1961	Anatomy	M.Sc.
KASHYAP, M. L.	Singapore	1964	R.V.H.	M.Sc.
KASHYAP, M. L. KHANNA, P. N.	Madras	1960	R.V.H.	M.Sc.
KONOK, G. P. KUDO, C. F.	Toronto	1964	M.G.H. R.V.H.	M.Sc.
KUDO, C. F.	McGill	1962 1957	R.V.H.	Ph.D.
LADAGA, L. G.	St. Thomas	1957	R.V.H. & McIntyro	
LANNON, S. G.	Dalhousie Ottawa	1959	M.N.I.	A STATE OF THE PARTY OF THE PAR
LEBLANC, F.	Seoul	1952	M.C.H.	THE STATE
LEE, S. K. LEVENE, D. L.	Manitoba	1962	R.V.H.	M.Sc.
LIN, S. J. P.	McGill	1961	M.C.H.	
LINS S. G.	Recife	CONTRACT AND	M.N.I.	-
LOPEZ, G. A.	Madrid	1961	R.V.H.	M.Sc.
LORENZO, A.	Philippines	1957	M.N.I.	70
LOUGH, J. O.	McGill	1957	Pathology	M.Sc.
LUHOVYJ, I. R. LUSH, N. J.	Montreal	1964	R.V.H.	141.50.
LUSH, N. J.	Dalhousie	1959	M.N.I.	M.Sc.
MacKAY, F.	McGill	1963	R.V.H. R.V.H.	22 111.00.
MAGILL, F.	McGill	1960 1949	Anatomy	Ph.D.
MANDAVIA M. G.	Bombay Sydney	1963	R.V.H.	M.Sc.
MANDL, M. L.	St. Paulo	1961	M.N.I.	11/2
MARINO, J. R.	Toronto	1962	Biochemistry	M.Sc.
MARKS, A. A. MEIER-EWERT, K.	Dusseldorf	1957	M.N.I.	
MELLATI, A. M.	Tehran	1962	R.V.H.	M.Sc
MENARD, J.	Paris	1963	Hotel Dieu	M.Sc
MERZEL, J.	Sao Paulo	1965	Anatomy	1979
MIDGLEY, R. D.	McGill	1960	M.G.H.	Ph.D
MITMAKER, B.	Geneva	1957	J.G.H.	PH.D
MONTPETIT, V. M.	Ottawa	1961	M.N.I.	

			Hospital	Registered for
Name	Graduated From	Year	or	Grad.
			Department	Degree
MORI, S.	Osaka	1965	Anatomy	SUTHER
MUNIGLE, J. A.	New York Columbia	1967 1963	Anatomy M.N.I.	SYED, A.
MURPHY, J. T. MURRAY, M.	Wisconsin	1963	WI.IN.I.	TAYLOR,
NAJJAR, T.	Baghdad	1965	St. M.H.	Ph.D.
NASPITZ, C. K.	St. Paulo	1959	M.G.H. & R.V.H.	M.Sc.
NEEDHAM, C.	Albany	1961	M.N.I.	_
NEUMANN, P. Z.	Szeged	1956	M.C.H.	10-1
OH, J. H.	Seoul	1951	R.V.H.	Ph.D.
O'NEIL, A. M.	Ireland	1960	R.V.H.	0177
ONG, D. Y.	Far Eastern	1958	J.G.H.	M.Sc.
OUTERBRIDGE, J. O.	McGill	1962	Aviation Research	Ph.D.
PACE-ASCIAK, C. PARVIN, M.	McGill	1966 1960	M.N.I.	M.Sc.
PATTEN, R. L.	Tehran McGill	1962	Q.M.V.H. M.G.H.	IVI.SC.
PEDERSON, E.	McGill	1964	Donner	VIM. C. I
PERRET, E.	Switzerland	1964	M.N.I.	DATERBOX
PICHARDO, L. P.	St. Ilgo	1962	Pathology	M.Sc.
PINET, J. M.	Paris	1961	Anatomy	ALL WILLIAM
PITZELE, S.	Brussels	1955	R.V.H.	Ph.D.
PHILLS, J. A.	Dalhousie	1951	R.V.H.	M.Sc.
PORTER, A. J.	Queen's	1951	R.V.H.	
RADHAKRISHUAN,		1050	WOW	
M. A.	Madras	1958	M.C.H.	DI D
RAMBOURG, A.	Nancy	1961	Anatomy	Ph.D.
REED, J. M. RIBADEAU-	Duke	1960	M.N.I.	
DUMAS, J. L.	Paris	1962	M.N.I.	0000000
RICHARDS, S. E. M.	Birmingham	1958	M.C.H.	_
ROBERTSON, P. C.	St. Andrews	1956	R.V.H.	_
ROBSON, H. G.	McGill	1960	R.V.H. Bacteriology	
RODGER, N. W.	Manitoba	1956	R.V.H.	
ROGO-ORTEGA, J. M.		1962	Hotel Dieu	Ph.D.
ROSENSWEIG, J.	McGill	1955	J.G.H.	Ph.D.
SABBADINI, E.	Pavia	1954	Donner	Ph.D.
SAKAI, T.	Hokkaido McGill	1963 1949	R.V.H. Donner Bldg.	M.Sc.
SCHIPPER, H. L. SCHWARTZ, A.	Oueen's	1959	M.N.I.	- IVI.DC.
SEAMANS, K.	Dalhousie	1959	M.N.I.	_
SEELY, J. E.	McGill	1962	M.C.H.	M.Sc.
SEELY, J. F.	McGill	1962	R.V.H.	_
SETAISHI, C.	Hokkaido	1959	R.V.H.	-
SHANFIELD, I.	McGill	1964	R.V.H.	Ph.D.
SHIBATA, H. R.	Hiroshima	1955	R.V.H.	Ph.D.
SHIMAO, S.	Tokkoyi	1954	R.V.H.	DI D
SHIZGAL, H. M.	McGill	1963	R.V.H.	Ph.D.
SHOHMURI, T.	Okayama	1957	M.N.I.	Ph.D.
SIMARD, S. J.	Laval	1964 1959	Hotel Dieu M.N.I.	- In.D.
SINGH, S. SOSSOYAN, M.	Punjab Beirut	1963	R.V.H.	M.Sc.
STANOJANOVIC, H. D		1957	O.M.V.H.	M.Sc.
STEVEN, E. M.	London	1938	Paediatrics	_
SUM, T. Y.	Far Eastern	1958	Donner	Ph.D.

THE COLUMN THE COLUMN

Name	Graduated From	Year	Hospital or Department	Registered for Grad. Degree
SUTHERLAND, N. G. SYED, A. K. TAYLOR, D. S. THUT, H. TURNER, N. S. VELA-MARTINEZ, J. J. VOST, A. WALI, M. N. WARD, J. L. WEINSTOCK, A. WOLFE, B. M. WOOD, T. E. WOOLCOCK YABLON, I. G. YIM, G. K. W. YOSHINO, Y. Y. ZBROWSKI- SLUIS, D. I.	Glasgow Karachi Edinburgh Western Edinburgh Mexico Glasgow Pakistan S. Carolina Toronto Oxford Western Ontario Australia McGill Iowa Tokyo Brasil	1964 1963 — 1959 1962 1963 1958 1958 1961 1962 1963 1961 1960 1954 1956 1959	M.G.H. Donner M.G.H. (Pharmac.) R.V.H. R.V.H. Donner M.G.H. M.G.H. R.V.H. Anatomy R.V.H. Epidemiology R.V.H. R.V.H. McIntyre McIntyre R.V.H.	M.Sc.

Faculty of Medicine

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Health Service — 8	M.D.,C.M. — 12
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History of Medicine — 19	Surgery — 39
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McGill University FACULTY OF MEDICINE

ADMINISTRATIVE OFFICERS

H. ROCKE ROBERTSON, B.Sc., M.D.,C.M., D.C.L. (Bishop's), LL.D. (Man., Tor., Vict., Glas., Dartmouth and Mich.), D.Sc. (U.B.C.), D. de l'U. (Montr.), F.R.C.S. (Edin.), F.R.C.S. (C), F.A.C.S. Principal and Vice-Chancellor M. K. OLIVER, B.A., M.A., Ph.D. Vice-Principal (Academic) ROBERT F. SHAW, C.C., B.Eng., D.Sc. (McM.), M.E.I.C. Vice-Principal (Administration)

C. A. WINKLER, O.B.E., M.Sc. (Man.), D.Phil. (Oxon.), Ph.D., F.C.I.C., F.R.S.C.

Vice-Principal (Planning and Development)

MAURICE McGREGOR, M.B., B.Ch., M.D. (Rand), M.R.C.P. (Lond.),

MAURICE McGREGOR, M.B., B.Ch., M.D. (Rand), M.R.C.P. (Lond.), F.R.C.P.(C)

ROBERT F. P. CRONIN, M.D., C.M., M.Sc., M.R.C.P. (Lond.), F.R.C.P.(C)

Associate Dean (Postgraduate Medical Education)
D. G. KINNEAR, B.Sc., M.D.,C.M., F.R.C.P.(C), F.A.C.P.

Associate Dean (Admissions)
G. E. JORON, B.A., M.D., C.M., F.A.C.P., Dip. (Int. Med.)

Associate Dean (Professional Relations)
R. NEIL MacDONALD, B.A. (Tor.), M.D., C.M., F.R.C.P.(C)

Associate Dean (Medical Education)
JOHN G. HAMPSON, B.Com., C.A.
Business Officer of the Faculty
ALAN L. PATERSON, B.Sc., B.A. (S.G.W.U.)
Executive Secretary of the Faculty
Secretary of the Board of Governors
ALLAN C. McCOLL, D.F.C., B.Com., C.A.
COLIN M. McDOUGALL, D.S.O., B.A.

Associate Dean (Medical Education)
Business Officer of the Faculty
Secretary of the Board of Governors
ALLAN C. McCOLL, D.F.C., B.Com., C.A.
Registrar

TUTORS 1968-1969

FIRST YEAR TUTORS P. BEAUDRY A. L. JOHNSON G. M. KARN J. Q. BLISS P. R. BROMAGE D. J. LEWIS D. M. MARCUS P. BLUNDELL A. J. MARKUS R. BROUGHTON L. McCallum J. H. BURGESS G. CANTLIE E. McGarry K. MINDE J. S. CHARTERS N. EADE J. MILLER W. D. ENGELS D. MOOREHOUSE L. Moroz P. GLOOR H. W. PALMER A. GOLD M. SNARCH R. GOURDEAU

T. R. HALE

J. HINCHEY
C. H. HOLLENBERG

SECOND YEAR TUTORS

I December	R. N. LAWSON
J. BLUNDELL	J. MIDGELY
D. K. CLOGG	
R. L. CRUESS	N. MITCHELL
	S. MOORE
H. Don	J. A. OLIVER
J. DOSSETOR	
J. ELDER	H. F. OWEN
	S. POLSON
W. FELDMAN	
H. FINLAYSON	J. P. ROBB
	M. SLAPAK
J. R. GUTELIUS	
	L. STERN

Separate Announcements are available for the School of Physical and Occupational Therapy, and the School for Graduate Nurses.

Details of Scholarships, Bursaries, Prizes, Medals, and Loan Funds are given in the Scholarships Announcement, which may be obtained from the Registrar's Office.

Administrative Offices of The Faculty of Medicine are in The McIntyre Medical Sciences Building, 3655 Drummond St., Montreal 2.

FACULTY OF MEDICINE

The one hundred and thirty-sixth session of the Faculty will open on September 4, 1968 for students of all years.

Students may enter the Faculty of Medicine in one of two ways. A limited number will be admitted from high school to the Combined Course in Science and Medicine. Most will be admitted from college to the four-year medical programme.

A. COMBINED PROGRAMME IN SCIENCE AND MEDICINE

APPLICATION FOR ADMISSION

Application should be made by March 1, 1969 to the Admissions Office of McGill University, Montreal 2, Canada. Application forms may be obtained from the Registrar's Office or the Admissions Office.

REQUIREMENTS FOR ENTRANCE

Students of high calibre and first-rate academic attainment will be admitted to the First year of this programme after successfully completing junior matriculation. They will be enrolled directly in the Faculty of Medicine and at the same time in the Faculty of Arts and Science. In exceptional circumstances students will be admitted to the Second year of the seven-year programme when they have obtained high standing in senior matriculation. A joint committee of the two Faculties concerned will select the successful candidates.

DESCRIPTION OF THE PROGRAMME

Duration: Seven years from junior matriculation, six years from senior

matriculation.

Degrees: B.Sc. (after 5 years), M.D., C.M. (after 7 years).

First year: Chemistry, physics, mathematics, biology and two electives.

Second year: Organic chemistry and five electives.

Third year: Five electives.

Fourth, Fifth, Sixth and Seventh years: The standard 4-year medical curricu-

lum.

One course in English, not necessarily a First year course, will be required at some time during the first three years.

Elective courses must be selected so as to meet the requirements for the degree of B.Sc.

B. FOUR-YEAR PROGRAMME IN MEDICINE

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Associate Dean, Room 609, McIntyre Medical Sciences Building, or from the Registrar's Office.

As the number of students in each class is limited, application should be made early and in any case not later than January 1. Each application must be accompanied by a non-returnable fee of \$5.00 in the form of a cheque or money order payable to McGill University.

A fee of \$50.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Associate Dean is advisable, when possible.

REQUIREMENTS FOR ENTRANCE

1. (a) Total Academic Credits: The minimum requirement for admission to the medical programme is the satisfactory completion of three full years of study in a recognized college or Faculty of Arts and Science in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. Preference is given to those who have completed the work leading to a B.A. or B.Sc. degree.

(b) Scientific Requirements: In the scientific branches, certain subjects are

specifically required:

Chemistry, two full courses, including general chemistry and organic chemistry, with laboratory work.

Physics, one year with laboratory work.

Biology, or zoology, one year with laboratory work. (Of this, a half year must consist of zoology.)

(c) Cultural Requirements: These must be selected in such a way as to be in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. These would commonly include credits in English literature and composition, and in mathematics. It is advisable that each applicant present evidence of such preparation.

(d) All candidates for admission to the Medical Faculty are required to take the Medical College Admission Test conducted by The Psychological Corporation (304 East 45th Street, New York, N.Y. 10017) or to furnish an explanation of why they are unable to do so. This test should be taken not later than the spring of the Third year of undergraduate study.

2. In selecting courses, in addition to the specific requirements listed above, an intending medical student should plan his pre-medical programme as a whole, and in accordance with a definite educational objective. Emphasis should be laid on the broad educational value and the intellectual training afforded, rather than on the factual content of such pre-medical curricula; the student is therefore advised to plan his programme in such a way as to provide more than elementary training in some definite field of learning which appeals to him; this major field may be selected from the natural or the social sciences or the humanities. Certain subjects which though not essential have been found valuable in medical study, and which may be included as electives if the curriculum in the major field permits, are psychology, sociology, and genetics.

In general, students are advised not to anticipate medical school courses in physiology, histology, bacteriology, and biochemistry at the expense of a fundamental training as outlined above.

On the other hand, for students who desire preparation in excess of the minimum requirements, a considerable degree of specialization in the sciences, such as an Honours degree, or a Master's degree, in physics, chemistry, biology, physiology, or bacteriology, may prove to be advantageous.

The students' attention is called to the memorandum printed in the Announcement of the Faculty of Arts and Science for the guidance of those who wish to enter Medicine.

EQUIVALENT STANDING

A student of another medical school who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official statement of his preliminary education and of the medical programme he has followed and the standing he has obtained. This should be accompanied by a calendar of the medical school in which he has studied, giving a full statement of the course of study, and by a certificate of moral character and conduct.

The equivalent courses of study in schools recognized by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the recognized school, but the student may be required to pass such examinations, individual or comprehensive, as may be required by the Faculty.

REGISTRATION

Students in the Faculty of Medicine will register at the Sir Arthur Currie Memorial Gymnasium on Tuesday, September 3, 1968. Those who register late will be required to pay a late registration fee of \$5.00 if they register during the first week of the session and \$10.00 if they register during the second. The fee will not be refunded except by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

FEES

The University reserves the right to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions described in the General Announcement.

UNIVERSITY FEES

1.	COMBINED PROGRAMME IN SCIENCE AND MEDICINE	
	First, Second and Third years	
	Fourth to Sixth years	800.00
	Seventh year	805.00
2.	FOUR-YEAR PROGRAMME IN MEDICINE	
	First to Third years	800.00
	Fourth year	805.00

3. REPEATING STUDENTS

Students repeating a year pay full fees.

AD EUNDEM FEE

Students entering any year above the First, pay a special ad eundem fee of \$ 10.00

GENERAL REGULATIONS

Students entering the University for the first time are required to pay their fees either by mail or in person at the Accounting Office. The first instalment is due within 10 days after registration, the second instal-

ment before January 15, 1969.

A late payment fee of \$5.00 is charged for payment after the specified dates.

2. Students who have completed one or more years and intend to register in the succeeding year must pay one half of the total sessional fee by mail or in person to the Accounting Office before August 26, 1968, otherwise they will not be permitted to register. Instructions for paying fees in advance will be mailed to all upper year students, either with their Reports of Sessional Standing or a short time later. Students who have been notified by the University of the award of a scholarship, bursary or student loan, and who require this for payment of the first instalment of fees, must obtain from the Student Aid Office, McGill University, a Permit to Delay Payment of Fees.

The second instalment is due January 15, 1969. A late payment fee of \$5.00 is

charged for payment after the specified dates.

3. Students registering late must pay their fees at the time of registration, failing which they become subject to the late payment fee and the provisions of the

following paragraph:

As soon as possible after the prescribed dates for the payment of fees the Chief Accountant will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

All fees are payable in Canadian currency.

For further information and for a list of special fees see the General Announcement.

MICROSCOPES

Each student on beginning his studies is required to provide himself with a

first-class microscope for laboratory and private study throughout his course. The Medical Faculty has examined a large number of student monocular microscopes and has agreed upon specifications which it regards as best suited to student requirements. Copies of these specifications are circulated by the Dean's Office to all students entering the Faculty of Medicine.

The University does not rent microscopes to medical students.

BOARD AND RESIDENCE

For details of board and residence and an estimate of expenses, see the General Announcement.

HEALTH SERVICE

For details of the Health Service and medical examinations see the General Announcement.

CHANGES IN THE MEDICAL CURRICULUM

The Faculty of Medicine has instituted a major curriculum revision, certain features of which were introduced into the programme of the First-year class in the Fall of 1967. This class will graduate by 1971, and changes which involve the Second, Third and Fourth years of the medical curriculum will be introduced as the class enters its subsequent years. These changes are:

(a) Implementation of an expanded elective programme;

(b) Increased incorporation of clinical material into the basic science pro-

gramme of the first two years;
(c) Introduction of a Behavioural Science course to the First-year curriculum;
(d) Institution of a course in "Integrated Teaching" in the third quarter of the Second year.

The expanded elective programme has been introduced to enable the student to play a significant role in his education, and to engender an independent and discriminatory approach to learning — necessary in the continuing process of self-education, and vital to the practice of good medicine in later professional life.

In addition, the elective programme may provide an opportunity for medical students to make earlier career choices, and it will enable them to return to a study of the basic medical sciences at a time when they have had significant clinical exposure.

This programme will be implemented by introducing the following curriculum changes:

Extension of the academic year to 40 weeks in the first three years, and to 36 weeks in the Fourth year.

The provision of a 10-week "block" of elective time in the Second year, during the final ten weeks of the session.

The provision of a ten-week "block" of elective time in the Third year such elective time to be taken during any of the four "blocks" into which this year is divided.

Provision of a nine-week elective "block" in the Fourth year — such elective time to be taken during any of the four "blocks" into which this year is divided.

The holding of a separate medical Convocation in 1971 on or about June 15.

The increased use of clinical material in the basic science courses will give greater relevance to the body of knowledge which First- and Second-year students must acquire. The continuing integration of clinical material throughout the 4 years should stimulate student interest and provide an improved knowledge of the basic sciences and a greater understanding of their importance as a background for sound clinical practice.

BEHAVIOUR, GROWTH AND DEVELOPMENT COURSE

This course, consisting of 120 hours of lectures, demonstrations and visits, is planned to introduce the student as early as possible to certain aspects of the clinical field, particularly those of behaviour, growth and development.

The student is given an opportunity to learn about a series of clinical and technical emotionally-tinged situations. Interviewing is introduced, utilizing audiovisual aids and rating scales, which permits participation of the class as a group.

Other sections introduce the student to psychosomatic interactions, the developing individual in families and groups, problems of separation, and the subjective side of illness, chronic disease and death. This part has been under the aegis of the Department of Psychiatry.

The second portion of the course, directed by the Department of Paediatrics, deals with genetic factors related to growth and development, pre- and perinatal adaptation, adolescence, sexual maturation and adjustment, and the problems of senescence and aging.

The course is multi-disciplinary, given by teachers from a number of sciences and specialties. While the Department of Medicine provides most of the staff, outstanding teachers in the fields of zoology, anthropology, sociology, philosophy, social work, psychology, and the clergy are also included.

In the third quarter of the Second year, an experiment in the development of an integrated teaching programme will be introduced. The programme, which will consist of instruction organized by subject committees rather than by departments, will be presented at the time that students are exposed to physical and laboratory diagnosis. This will re-inforce an appreciation of the close relationship existing between the pre-clinical and clinical disciplines, and lead to a closer rapport between the various departments contributing to the integrated programme.

As the new curriculum will be introduced to the Second, Third, and Fourth years of the programme in 1969, 1970, and 1971, respectively, all our department listings in this *Announcement* may not reflect the changing curriculum. For more detailed information, please contact the department or departments concerned.

COURSES FOR THE DEGREE OF M.D., C.M.

The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including

- (a) four years of medical study in the University leading to the degree of M.D., C.M.; and
- (b) one year of interneship in an approved hospital.

While the Faculty's administration exercises a general supervision of arrangements for interneships, the Faculty of Medicine assumes no responsibility to provide an interneship for any student.

A certificate that his medical education is completed and that he is eligible to sit for the examination of a licensing board shall not be issued to any graduate until the University is in possession of satisfactory evidence that he has completed the full requirements.

The arrangement of the principal subjects of instruction is usually as follows:

FIRST SESSION

Anatomy (including Embryology), Histology, Physiology, Biochemistry, Behavioural Science Course, General Pathology, History of Medicine.

SECOND SESSION

Central Nervous System (Neuroanatomy, Neurophysiology, Psychology), Medical Microbiology, Laboratory Diagnosis, Medicine, Surgery, Obstetrics, Epidemiology and Health, Pharmacology, Psychiatry, Special Pathology, Radiology, Elective.

THIRD SESSION

Epidemiology and Health, Medicine, Surgery, Obstetrics and Gynaecology, Medical Jurisprudence, Neurology and Neurosurgery, Paediatrics, Psychiatry, Ophthalmology, Oto-laryngology, Radiology, Anaesthesia, Elective.

FOURTH SESSION

Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Paediatrics, Ophthalmology, Oto-laryngology, Radiology, Therapeutics, Elective.

EXAMINATIONS

The examinations taken within the Medical Faculty are divided into two groups, namely major examinations and minor examinations. Major examinations are the final examinations in Anatomy (Embryology), Histology, Physiology, Biochemistry, Pharmacology, Medical Microbiology, Special Pathology, Epidemiology and Health (Third year), Paediatrics, Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Central Nervous System.

The examinations in Medicine, Surgery, Obstetrics and Gynaecology, and Psychiatry at the conslusion of the Third Session are ranked as major examinations, even though they are not the final examinations in these subjects.

Minor examinations include the final examinations in General Pathology, Behavioural Science Course, Laboratory Diagnosis and examinations preliminary to the final major examinations.

A student who fails in any major examination will be required, before he sits a supplemental examination, to present to the Dean's office from the senior professor of the Department concerned a certificate that the student has taken sufficient extra tuition as would indicate that he has reviewed the subject and is a suitable candidate for the supplemental examination.

There is a strict difference between the importance of a major and a minor examination. If a student fails in the supplemental of a major examination, there are definite restrictions as shown below, but if he fails in the supplemental of a minor examination he is permitted to carry conditions as shown below.

A student is not allowed supplementals in three major examinations in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student is not allowed supplementals in two major and one minor examination in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

Unless the Promotion Committee finds special mitigating circumstances, a failure in the supplemental of a major examination will require the student to

repeat his year, and no student may repeat such a year more than once. Any student who fails in the supplementals of two major examinations in any one year shall be required to retire without the privilege of further supplementals.

A student who fails in the supplementals of three or more minor examinations in any one year must repeat this year or may be asked to retire, as may be decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

A student who fails in the supplementals of not more than two minor examinations may proceed with other subjects in the following year, carrying such subjects as conditions, but may not sit any subsequent major examinations until the conditions have been removed, nor may he carry more than two conditions at one time.

All conditions must be removed by the end of the first term (November) in each session when additional supplemental examinations will be held. Failure in any of these will require the student to revert to his previous year and to repeat the courses of the Winter and Spring terms.

A student in his final year may take a supplemental examination in one subject only, but must present a certificate from the senior professor of the Department concerned that he has taken extra tuition in this subject in one of the teaching hospitals of the McGill Faculty of Medicine. If he should fail in this supplemental examination, he must repeat the year of study and pass all the major examinations at the completion of the session.

A student in his final year who fails in two subjects will not be permitted supplementals but must repeat the year or retire, as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student will not be allowed to repeat a year more than once nor may he repeat a subsequent year if such repetition has been due to failure in examinations, except on special recommendation of the Promotion Committee, acting upon the motion of the representatives on the committee of the Department concerned.

A student who has been permitted to repeat his year must attain an overall average of 65% in order to continue in his programme.

Examinations, tests, reviews, etc. will ordinarily be held during the session only at the end of the twelve week terms. It is understood that such examinations, tests or reviews are conducted for the benefit of the student in order that he may have experience in the requirements of the sessional examinations, and further, that he and his teachers may know he is progressing in his studies. In the Fourth year final examinations will be held at the end of each rotation.

There shall be two Promotion Committees. The First Committee shall consist of representatives of the subjects of Anatomy, Biochemistry, Histology, Physiology, Pharmacology, Medical Microbiology and Pathology appointed by the Dean, and the Dean ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in their First and Second years.

The Second Committee shall consist of representatives of the Departments of Epidemiology and Health, Medicine, Surgery, Obstetrics and Gynaecology, Paediatrics and Psychiatry appointed by the Dean, and the Dean ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirement in their Third and Fourth years.

Results of all examinations will be released by the Dean's Office only, after they have been passed upon by the Promotion Committee. It is an absolute rule that no examination results shall be communicated by any other channel.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent. There can be no appeal from this decision.

GRADING

At the conclusion of each course, students are graded in three groups as follows: U = Upper Third of class, M = Middle Third of class, L = Lower Third of class.

In addition students who do not obtain a clear passing mark are graded as either D (doubtful) or E (failure).

By regulation of the Faculty of Medicine, a student is not permitted more than one "D" grade in the examinations of a single year. In the presence of other "D" or "E" grades all "D" grades are automatically converted into failures by the Promotion Committees.

The grade assigned to a student is based primarily upon the results of the Final Examination, but the instructor also takes into account the record of the work done throughout the course.

The quality of the written language used by a candidate is taken into account in determining his standing in all examinations.

REQUIREMENTS FOR THE DEGREE OF M.D.,C.M.

- 1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.
- 2. He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than nine months each in this University or in some other university, college or school of Medicine, approved by this University.
- 3. No one is permitted to become a candidate for the degree who has not attended at least two full sessions at this University.
- 4. Every candidate for the degree must have passed all the required examinations in the subjects comprising the Medical course.
- 5. He must have attended the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University and the practice of the Montreal Children's Hospital; and must have acted as clinical clerk in medicine, surgery, paediatrics and psychiatry and have fully reported upon the prescribed number of cases.
- 6. He must also have attended the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.
- 7. Every candidate must also have administered anaesthetics, under direction, at least six times.

REQUIREMENTS FOR LICENCE

Candidates accepted for admission are reminded that it is their personal responsibility to ensure that they fulfil all the licensing requirements of the country in which they intend to practise medicine. A university degree does not confer the right to practise. In each province of Canada, in each one of the United States and in all other countries the authority to license is vested in a licensing body which has its own special laws and requirements. In many cases a special standard of general education is insisted upon before beginning the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained.

Candidates accepted for admission should therefore communicate as soon as possible with the licensing body of the country in which they intend to practise and obtain from that licensing body the necessary instructions.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards as follows:

- QUEBEC — Dr. A. Roy, 1896 Dorchester Blvd. West, Montreal 25, P.Q. ONTARIO — Dr. J. C. C. Dawson, 64 Prince Arthur Ave., Toronto 5, Ont.

NEW BRUNSWICK — Dr. John R. Nugent, 112 Carleton St., Saint John, N.B. Nova Scotia — Dr. M. R. Macdonald, Victoria General Hospital, Halifax, N.S.

PRINCE EDWARD ISLAND — Dr. R. G. Lea, 170 Fitzroy St., Charlottetown, P.E.I.

Manitoba — Dr. M. T. Macfarland, 201 Kennedy St., Winnipeg 1, Man.

ALBERTA — Dr. W. Bramley-Moore, 9901 - 108th Street, Edmonton, Alta. SASKATCHEWAN — Dr. G. W. Peacock, 932 Spadina Crescent E., Saskatoon,

BRITISH COLUMBIA — Dr. W. G. McClure, 1807 West 10th Avenue, Vancouver 9, B.C.

NEWFOUNDLAND -

DOMINION REGISTRATION

In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board to the effect that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, 77 Metcalfe Street, Ottawa 4, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance at lectures, practical work, and clinics are also accepted by the various examining boards in Great Britain.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

GRADUATE PROGRAMMES LEADING TO DIPLOMAS IN THE CLINICAL DEPARTMENTS OF THE FACULTY OF MEDICINE

The Faculty of Medicine conducts graduate courses leading to Diplomas in Anaesthesia, Neurology and Neurosurgery, Psychiatry, Radiology and Urology.

INQUIRIES

Initial inquiries and inquiries of a general nature should be addressed to the Associate Dean (Graduate Studies and Research) of the Faculty of Medicine.

Inquiries about the details of individual diploma programmes should be addressed to the Chairman of the department concerned.

REQUIREMENTS FOR ENTRANCE

The minimum requirements for entrance to a diploma programme are (a) a degree from an approved medical college or school and (b) at least one year's interneship. Details of the requirements are set forth under the individual diplomas.

Credit may be given for study completed elsewhere than at McGill University, but to qualify for a diploma, the student must spend at least two years of graduate study and training in a clinical department of the Faculty of Medicine of McGill University.

APPLICATION FOR ADMISSION

Application forms may be obtained from the Executive Secretary of the Faculty of Medicine or the Chairman of the department concerned. The completed form should be submitted by the candidate to the Chairman of the appropriate department. If the application is approved by the department, this form is then sent to the Dean of the Faculty of Medicine for his approval.

FEES

There is a registration fee of fifteen dollars to be paid each year on registration except when the student is enrolled in the Faculty of Graduate Studies and Research.

REGISTRATION

The various diploma programmes in the clinical departments of the Faculty of Medicine lead to the award of diplomas by McGill University. Every student enrolled in such a programme must therefore be registered as a student of McGill University.

On beginning the actual course of study leading to a diploma the candidate must complete three copies of the Sessional Application Form. These are obtainable from the Secretary of the Faculty of Medicine or the Chairman of the Department concerned. These forms, completed by the student in triplicate, are submitted to the Chairman of the department for his signature and then to the Dean of the Faculty of Medicine for his signature. One of the three forms will be retained by the Dean and the other two are to be taken by the candidate to the office of the Registrar of McGill University. Following registration at the Registrar's Office the candidate must proceed to the Cashier's Office to pay such fees as may be required. After registration and payment of fees have been completed the student returns one copy of the form to the Chairman of his department and keeps the other.

These procedures of completion of the Sessional Application Form in triplicate, with signing by the Chairman of the department and the Dean, registration at the Registrar's Office, and payment of fees must be carried out *annually* at the beginning of each year of the diploma programme. If the student has been posted to an out-of-town centre for the session involved, registration forms will be mailed to him by the Registrar, on request.

The final date for registration is October 1. If a candidate is permitted to enter a diploma programme later than October 1, registration must be carried out within one month of the commencement of the programme.

If, during his academic year, the student is enrolled in the Faculty of Graduate Studies and Research, he must complete the procedures described above in addition to those required by the Faculty of Graduate Studies and Research, except that a registration fee for the diploma programme is not required in that particular year.

It is the responsibility of the student to ensure that the Sessional Application Forms are completed and that registration and payment of fees are carried out.

ENROLMENT AS A PARTIAL STUDENT IN FACULTY OF GRADUATE STUDIES AND RESEARCH

In the case of a student who is not proceeding to an M.Sc. or Ph.D. degree, but for whom the committee in charge, on the recommendation of the tutor, considers it important that the student should spend some time in study in one of the medical sciences, individual arrangements will be made by the Chairman of the department, either directly or through the student's tutor with the Chairman of the medical science concerned. Such students will be enrolled in the Faculty of Graduate Studies and Research and will be governed by the rules and regulations of this Faculty in regard to fees, etc., applicable to partial students.

COURSES OF INSTRUCTION

DEPARTMENT OF ANAESTHESIA

Professor — R. G. B. GILBERT (Chairman).

Wellcome Research Professor — K. KRNJEVIC.

Associate Professors — G. FRED BRINDLE, P. R. BROMAGE, A. B. NOBLE.

Assistant Professors — W. G. Cullen, H. F. Don, G. Ellison, R. Ferguson, A. Galindo, P. Otton, J. K. Rosales, J. B. I. Sutherland, J. E. Wynands.

Lecturers — H. E. Brown, E. M. Dunkley, G. S. Fox, G. L. Houle, A. Joyal, J. L. MacWatt, A. W. McDonald, A. Matzko, M. E. Morris, A. Pace-Floridia, F. A. Robillard, C. A. Sheridan, F. R. H. Wrigley,

Demonstrators — M. Burfoot, D. A. Firth, D. Gillies, E. W. Larking, A. N. Mungall, P. Quan.

UNDERGRADUATE COURSES

A student in medicine, before reaching that part of the curriculum which deals with anaesthesia, will have acquired during his earlier years at the University some incomplete, but important knowledge of anaesthesia while taking courses in Anatomy, Physiology, Biochemistry, Pharmacology and Pathology.

In the Third year he attends a series of twelve lectures given by a senior anaesthetist. At these sessions, he will be instructed in the physio-pathology of patients undergoing anaesthesia and surgery, the basic properties of anaesthetic drugs and the principles underlying anaesthetic techniques, which will serve as a background for the administration of anaesthesia.

In the Fourth year a period of one week is spent in the operating room. The student is assigned to an anaesthetist each morning from 8-12, and in the afternoon from 1:30 - 2:30 he attends a didactic session concerning the procedures he has witnessed.

Also in this year the one month "Period of Election" may voluntarily be spent in the Department of Anaesthesia of one of the University hospitals. This presents opportunity for additional supervised clinical work in the operating room, the recovery room and the intensive care unit.

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

GRADUATE AND CONTINUING EDUCATION COURSES

Diploma in Anaesthesia (Dip. Anaes.)

Minimum prerequisites for entry to the Diploma Programme in Anaesthesia are a degree from an approved medical college or school and one year's rotating interneship in an approved hospital. Foreign students may be subject to further requirements such as the E.C.F.M.G. depending on circumstances.

Applications for admission should be addressed to the Chairman, Department of Anaesthesia, McGill University, 3801 University St., Montreal.

The programme is of three years duration. Up to one year of credit may be given for work done elsewhere at a centre approved by the Chairman. Candidates, once enrolled, may under certain circumstances spend one of the three years at another centre, provided this meets with the approval of the Chairman of the Department. In all instances, to qualify for the Diploma the student must spend at least two years of graduate study in the Department of Anaesthesia of McGill University.

Each student is assigned for clinical work to one of the participating hospitals. Having spent six or twelve months in the hospital to which he was first posted, the student is then rotated every six months through a number of hospitals within this framework. Some of the hospitals are specialized and others are general.

During each appointment of six months, the Residents are directed by the staff members of the particular hospital where that residency is being served. Seminars are held weekly according to a programme which is the same for all hospitals. Some departments hold sessions which are set aside for review of the literature, while others have special sessions for the discussion of interesting cases. All the hospitals have excellent library facilities, and the libraries of the medical faculty are also accessible.

On the first Monday in each month there is a departmental meeting moderated by the Chairman. There may be presentation of cases of interest, recent advances or a guest speaker.

Every month a written examination, which refers to the seminar subjects of the previous four weeks, is set for all residents.

Postgraduate Basic Science Series

The Postgraduate Basic Science Series of lectures for all medical and surgical disciplines is followed where the topics are of importance to the specialty. In addition, four series of lectures are given, pharmacology or biochemistry before Christmas, and anatomy or physiology after Christmas.

The granting of the Diploma is subject to complete satisfaction in all the clinical rotations and Applied Basic Science courses. The Chairman and Chiefs of clinical departments reserve the right to dismiss at any time all those whose work is unsatisfactory or who appear to have chosen the wrong medical specialty.

The Wellcome Anaesthesia Research Department, established jointly by the Wellcome Trust and the University, operates in association with the Department of Anaesthesia. It offers both a basic study of anaesthetic mechanisms, and courses of study leading to post-doctoral degrees.

Annual Advanced Course in Angesthesia

This course is held during the month of May and is open to those sitting examinations in the fall and to those already in anaesthetic practice. At this course, the Wesley Bourne lecturer participates in the teaching sessions.

Guest Professor

Annually, a Visiting Professor spends a week in the Clinical Departments. Further information on any aspect of this Department can be obtained by writing to the Chairman, Department of Anaesthesia, McGill University.

DEPARTMENT OF ANATOMY

Professors — C. P. LEBLOND (Chairman), S. M. BANFILL, Y. CLERMONT, D. G. OSMOND.

Associate Professor — N. J. NADLER.

Assistant Professors — J. Courville, C. Huckins, B. Kopriwa, E. J. H. Nathaniel, B. L. Thompson, H. Warshawsky.

Lecturers — E. P. Aston, A. N. Freedman, S. C. Harvey, A. A. Herscovics, A. Morton, J. Ward, A. Weinstock, E. W. Workman.

REQUIRED COURSES

1. Gross Anatomy.

First year: Dissection and lectures cover the gross anatomy of the body except the Head, Neck and Brain. The course includes Embryology and Surface and Radiological Anatomy.

Second year: Dissection and lectures on the Head, Neck and Brain. This course is followed by 2. Introduction to the Central Nervous System, listed below, and a combined examination is held at the end of the year.

2. Introduction to the Central Nervous System. For Second year students and conducted with the co-operation of the Departments of Neurology and Neurosurgery, Physiology and Psychology. This course is listed under the Department of Neurology and Neurosurgery as 2A.

3. Applied Anatomy. Designed for graduate students.

Texts: J. C. B. Grant, A Method of Anatomy, 6th ed. (Williams and Wilkins, 1958). D. F. Davies and F. Davies, Gray's Anatomy, 33rd ed. (Longmans, 1962); J. C. B. Grant, An Atlas of Anatomy, 5th ed. (Williams and Wilkins, 1962); J. T. Aitken et al., A Manual of Human Anatomy, 5 vols. (Livingstone, 1956-58); A. B. Appleton et al., Surface and Radiological Anatomy, 4th ed. (Heffer, 1958).

Introduction to Medicine. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry and Physiology, in rotation.

ELECTIVE COURSES

The Department provides, as far as material will permit, facilities for advanced work or revision. The Chairman of the Department should be consulted by anyone wishing to undertake work of this nature.

4. Advanced Neuro-Anatomy. Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton. The class is limited to ten. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.

Microscopic Anatomy

REQUIRED COURSE

6. Histology. The study of the cytology and structure of tissues and organs. Texts: A. W. Ham, Histology, 5th ed. (Lippincott, 1965); W. Bloom and D. W. Fawcett, A Textbook of Histology, 8th ed. (Saunders, 1962).

Embryology

REQUIRED COURSE

8. The Study of Human Developmental Anatomy. This course is integrated with 1. Gross Anatomy.

Texts: J. Langman, Medical Embryology (Williams and Wilkins, 1963); L. A. Arey, Developmental Anatomy, 6th ed. (Saunders, 1954); W. J. Hamilton et al., Human Embryology, 2nd ed. (Heffer, 1952).

For graduate courses, see the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF BIOCHEMISTRY

Professors — K. A. C. ELLIOTT (Chairman), M. SAFFRAN, P. G. SCHOLEFIELD, S. SOLOMON.

Associate Professors — E. A. Hosein, Rose M. Johnstone, D. Rubinstein, J. H. Spencer, T. Wood.

Assistant Professors — Eleanor M. Harpur, M. Manning, R. L. Momparler, A. R. Wasserman, T. E. Webb.

Lecturers - S. MACLACHLAN, M. R. REESAL.

Senior Biochemists in Other Departments

E. H. Bensley (Experimental Medicine), Marion K. Birmingham (Psychiatry), Rhoda Blostein (Experimental Medicine), R. H. Common (Agricultural Chemistry), L. Goodfriend (Experimental Medicine), J. Gordon (Surgery), R. Harpur (Parasitology), R. Hobkirk (Experimental Medicine), S. Lerman (Ophthalmology), Catherine MacPherson (Psychiatry), A. Hope McArdle (Surgery), Hanna M. Pappius (Neurology and Neurosurgery), M. Richter (Experimental Medicine), A. Sehon (Chemistry), T. Sourkes (Psychiatry), M. W. Spence (Exp. Med.), B. Weigensberg (Pathology), L. S. Wolfe (Neurology and Neurosurgery).

FIRST YEAR

Two periods of lectures and clinical demonstrations and four hours of laboratory work per week.

ELECTIVES

A limited number of students in their Second, Third and Fourth years may take their ten week elective periods in the Department. Students will be assigned original research projects in the Department and under the direction of a member of its staff. They will also take part in all Departmental and group seminars and audit graduate courses. Students who plan to spend all three elective periods on one project will be particularly welcome and may hope to complete a useful piece of research.

OPTIONAL ADDITIONAL COURSES

For students who are interested in additional studies in Biochemistry current undergraduate and graduate courses in biochemistry are recommended. (See the *Announcements* of the Faculty of Arts and Science and of the Faculty of Graduate Studies and Research.)

DEPARTMENT OF EPIDEMIOLOGY AND HEALTH

Professors — J. C. McDonald (Chairman), M. C. Williams.

Associate Professors — M. R. Becklake, A. D. McDonald.

Assistant Professors — M. J. Ball, C. A. Guzman, I. Horowitz,
J. G. Lohrenz, P. V. Pelnar, C. E. Rossiter.

Lecturers — M. A. Bain, D. C. Bews, D. S. Fleming, F. Kaufman, B. Pollak, E. J. Pritchard, M. G. Townsend.

REQUIRED COURSES

FIRST YEAR

Social aspects of medicine.

Course of lectures, seminars and project work — two afternoons a week in the first quarter.

SECOND YEAR

Epidemiology and health.

Basic course on the principles of epidemiology and medical statistics and their application to clinical and public health practice — three half days a week in the first quarter.

THIRD YEAR

Survey Course.

Practical studies in the community of problems in epidemiology or social medicine by students working in small groups — each rotation five afternoons a week for three weeks.

Medical Jurisprudence.

Course of 12 lectures by speakers from the Faculty of Law.

ELECTIVE COURSES

SECOND YEAR

Medical Statistics.

Full-time course of tuition and laboratory work on statistical methods and study design relevant to epidemiology and experimental medicine. This elective is limited to 20 students and is intended for those contemplating a career in academic medicine or research. (Fourth quarter).

THIRD YEAR

Occupational Medicine.

Full-time course, half devoted to tutorials and laboratory work and half to practical experience in industry. Course limited to about 6 students, normally expected to have taken the elective in medical statistics. (Third quarter).

FOURTH YEAR

Epidemiology.

Full-time course, half given to tutorials on methods and applications and half to individual student research. Course limited to about 6 students normally expected to have taken the elective in medical statistics. (Second quarter).

HISTORY OF MEDICINE

Associate Professor — D. G. BATES (Chairman). Lecturer — E. H. BENSLEY.

REQUIRED COURSE

History of Medicine (First year). A series of 15 lectures providing an his-

torical survey of the intellectual and social aspects of medicine.

From time to time, and at the request of other departments, single lectures are given on the history of special subjects within courses being taught by those departments.

ELECTIVE

Advanced Work and Research. Opportunity is offered for a limited number of students to pursue advanced work or research in the history and philosophy of medicine, its sciences, and public health.

DEPARTMENT OF INVESTIGATIVE MEDICINE

Professor — J. S. L. BROWNE (Chairman).

Associate Professors — C. J.-P. GIROUD, N. KALANT.

Assistant Professors — A. CARBALLEIRA, J. STACHENKO.

Research Associate - S. SOLOMON.

Honorary Lecturers - J. GENEST, G. LEMIEUX, J. MARC-AURELE, W. J. NOWACZYNSKI.

Lecturers — C. Branchaud, C. I. Chappel, J. R. Ducharme, G. Klein, G. LEBOEUF, B. MURPHY, E. J. PINTER, R. SCHUCHER, R. WOLFE.

The Department offers courses leading to the M.Sc. and Ph.D. degrees in the Faculty of Graduate Studies and Research and provides research facilities for these students or for other persons proceeding to graduate degrees, diplomas or for other qualified individuals. The Department is also prepared to make arrangements to offer elective courses for medical undergraduate students.

The courses and the direction of research in this department are given in close collaboration with the Department of Experimental Medicine and members of either department give lectures and direct the research of graduate students registered in the other.

Students may work either in the Medical Building or in one of a number of hospitals depending on the type of work done (clinical or laboratory) or upon the individual directing the research. Part of the function of the department is the correlation of clinical investigation being done at various hospitals.

Students holding either the M.D. or B.Sc. degree or their equivalents may enter the department provided that their standing is acceptable. For the list of courses and further details see the Announcement of the Faculty of Graduate Studies and Research.

In the session 1969/70 the Department of Investigative Medicine will be merged with the Department of Experimental Medicine. Students registered in the Department of Investigative Medicine at that time will continue their studies and when they graduate will do so from the Department of Experimental Medicine. The Fall Convocation (1969) will be the last one at which students will graduate from the Department of Investigative Medicine.

Those students who are at present registered in the Department of Investigative Medicine will not be required to fulfil the Ph.D. language requirement of the Department of Experimental Medicine, but those registering for the first time in the session 1968/69 and thereafter will be required to do so.

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate Elective Catalogue. Detailed information can be obtained from the Associate Dean (Medical Education).

DEPARTMENT OF MEDICINE

Professors — D. G. CAMERON (Chairman), J. C. BECK, R. V. CHRISTIE, M. McGregor, J. M. McKenzie.

Associate Professors — B. A. Cooper, G. E. Craig, J. E. Dossetor,
N. R. Eade, R. R. Forsey, S. O. Freedman, C. A. Goresky,
G. W. Halpenny, W. H. P. Hill, M. M. Hoffman, C. H. Hollenberg,
J. G. Howlett, A. L. Johnson, L. G. Johnson, M. Kaye, D. G. Kinnear,
J. F. Meakins, J. L. McCallum, E. McGarry, R. D. McKenna,
E. A. S. Reid, S. R. Townsend.

Assistant Professors — M. Aronovitch, C. M. Ballem, F. M. Bourne,
L. Brunton, J. H. Burgess, C. M. Comty, R. F. P. Cronin,
J. H. Darragh, N. M. K. DeLeeuw, J. Dupré, P. Gold, J. L. Hutchison,
G. E. Joron, F. Kalz, A. Knight, A. W. Lapin, B. A. Levitan,
A. D. MacDonald, R. N. MacDonald, D. J. MacIntosh,
K. R. Mackenzie, J. R Martin, I. G. Milne, W. H. Palmer,
J. A. P. Paré, C. J. Pattee, J. S. Polson, J. R. Ruedy, P. Schopflocher,
P. Sekelj, J. A. Shanks, L. Shapiro, Y. Sinai, J. A. Sosa, K. A. Sowden,
C. H. Stacey, P. B. Stewart, D. Stubington, A. T. Thom,
D. L. Thomson, R. D. Wilkinson.

Lecturers — A. Angel, E. Arendt, A. Aronoff, C. S. Barker, R. G. Baxter, J. O. W. Brabander, P. Bradley, J. L. Brandt, G. Cantlie, L. A. Caswell, Wm. Cohen, K. G. Dawson, F. Dirks, M. E. Dixon, R. E. Donevan, P. A. Edwards, S. L. Eidinger, P. A. Flint, W. Gerstein, A. Gold, A. Gordon, T. R. Hale, R. G. M. Harbert, J. G. Hellstrom, J. A. M. Henderson, A. G. Kendall, L. Kovacs, J. Krupey, W. Leith, C. C. MacDonald, D. M. Marcus, W. E. H. Mason, A. Miller, H. F. Mizgala, P. Mlynaryk, L. Perelmutter, G. Piasecki, R. E. G. Place, R. L. Stanford, T. J. Sullivan, A. Tenpas, H. A. Warner, P. G. Weil, J. Wener, V. M. Whitehead, D. H. Woodhouse, L. A. Wright.

Demonstrators — J. R. Albert, D. Barza, L. W. Birmingham,
L. E. Cassidy, M. S. Cohen, P. Chesney, S. R. Cooper, J. P. Couture,
F. A. D'Abadie, H. Desjardins-McMillan, C. M. Flint, M. A. Hickey,
H. Z. Hollinger, A. B. Hood, G. A. Hutchison, L. J. Korenberg,
M. Kovalik, M. Kunstler, W. A. R. Laing, I. Lapin, B. W. Lavallee,
J. F. Macdonald, N. MacIntosh, D. G. Mackay, T. Monks,
A. F. Nancekivell, M. B. Nestel, B. Pollak, L. Redmond,
J. R. Rishikof, J. Rubin, R. Shulman, P. Sommerfreund, V. Susset,
I. Winkler, D. Wiselberg, G. H. Worsley, J. C. G. Young.

Experimental Medicine

Professors — D. V. Bates, E. H. Bensley, B. Rose, S. Solomon, Eleanor Venning.

Associate Professors — M. Becklake, R. Hobkirk, B. Kovacs, D. B. Tonks. Assistant Professors - N. R. ANTHONISEN, R. BLOSTEIN, J. H. DIRKS,

H. G. FRIESEN, H. L. GOLDSMITH, L. GOODFRIEND, L. GYENES,

G. Klaasen, P. T. Macklem, J. Milic-Emili, A. D. Rotenberg, A. Saha, W. M. SPENCE, J. I. WATSON.

Lecturers - B. Bain, M. H. Gault, J. Jepson, A. U. Sargent, D. B. Shaw, S. SOLOMON, M. VAS.

Demonstrators - W. M. FAM, E. GONDA.

THE UNDERGRADUATE CURRICULUM IN THE DEPARTMENT OF MEDICINE

FOREWORD

The object of the following courses is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease, to afford a knowledge of the technique, and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the programme, while the personal contact of students, teachers, and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy, and biochemistry with clinical medicine is emphasized — not only in the pre-clinical years, but later in hospital and laboratory — thus affording students a modern scientific medical training. The importance of regarding the patient as a person is emphasized throughout.

Unusual facilities are afforded at the Royal Victoria Hospital and at the Montreal General Hospital where there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

REQUIRED COURSES

SECOND YEAR

Course II 1 - Integration of Physiology, Biochemistry and Anatomy with Medicine.

Time — Last term of Second year: three lectures a week.

Place — Medical Building.

Subject Material — This course covers in a systematic manner the deviations from the normal of the physiological and biochemical functions. These are correlated so as to explain symptoms and signs which may be found on physical examination as detected by clinical methods dealt with in Course II 2. This course is so interpreted as to give the student a panoramic view of these disturbances with a proper perspective.

Course II 2 — A Practical Course in Clinical Methods.

Time - Third term of Second year.

Place - The Royal Victoria, Montreal General, and Queen Mary Veterans' Hospitals.

Subject - Practical instruction 6 hours a week on Normal and Abnormal Physical Signs.

Course II 3 — Laboratory Diagnosis.

Time — Last term of Second year.

Place — Medical Building.

Subject - Instruction and practice 2 periods a week in microscopy as applied Dr. Lauder Brunton and Assistants to clinical medicine.

THIRD YEAR

Course III 4 — Case Reporting.

During the trimester in Medicine students will be assigned patients in the wards. They will be required to write case histories, make a general examination, note progress, and do such laboratory investigations as are within their scope and have access to all other Laboratory and X-Ray findings. Teaching Fellows will be available to assist students in this work. Bedside clinics and seminars are conducted by members of the attending staff. Experience in dermatology and other medical specialties is provided.

Course III 5 — Clinico-Pathological Conference.

Time — Weekly during the medical term.

Place — The Royal Victoria and the Montreal General Hospitals.

Course III 6 — Integration of Physiology, Biochemistry and Anatomy with Medicine — a continuation of course II.

One lecture a week for 2 terms, two lectures a week for the third term.

Course III 7 — Therapeutics. A course of lectures on the principles of therapeutics and on the treatment of various diseases for which clinical material is not readily available.

FOURTH YEAR

Course IV 8 — Case Reporting. An effort is made to enable the student in the Fourth year to take an active part in the care of the patient, both in the wards and in the Out-door Clinics. One month will be spent on the wards and one month in the "Comprehensive Clinic" of the outpatient department. Bedside clinics and seminars are conducted by members of the attending staff. Experience in dermatology and other medical specialties is provided.

Course IV 9 — Clinical Pathological Conference.

Time — Once a week during the medical term.

Place — The Royal Victoria and the Montreal General Hospitals.

For graduate courses in Medicine, see under Department of Investigative Medicine in this Announcement and under Department of Experimental Medicine in the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

Professors — R. W. REED (Chairman), G. G. KALZ, L. SPENCE, J. W. STEVENSON.

Associate Professors — C. A. Butas, P. M. Cooke, B. H. Matheson, S. I. Vas, G. Webster, W. Yaphe.

Assistant Professors — H. Abramovitch, E. C. S. Chan, P. Gill, L. Kapica, E. Mankiewicz, A. M. Masson.

Lecturers — S. NOMMIK, H. G. ROBSON, R. SILOV, E. WOOD.

Demonstrator — C. SHAW.

All lectures and laboratory periods are held in the Pathological Institute.

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

20. Medical Microbiology.

Second year. This course deals with the general principles of medical microbiology and immunology. Both lectures and laboratory are concerned with the anatomy and physiology of infectious agents, theories of infection and immunity and a systematic study of heateric respectively. and a systematic study of bacteria, viruses, rickettseae, fungi and parasites pathogenic to man.

25. Dental Microbiology.

OTHER COURSES

The Department offers a range of courses leading to the Honours B.Sc. in Microbiology and is well-equipped for graduate research leading to the M.Sc. and Ph.D. degrees. Training in clinical microbiology is available in the service laboratories of the Royal Victoria Hospital and the Montreal Neurological Institute located in the Department.

See the Announcements of the Faculty of Arts and Science and the Faculty of

Graduate Studies and Research.

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

Professor of Neurology and Neurosurgery — THEODORE RASMUSSEN (Chairman).

Professor, Neurology — Francis McNaughton.

W. V. Cone Professor of Neurosurgery - WILLIAM FEINDEL.

Associate Professors, Neurology - D. W. BAXTER, D. L. LLOYD-SMITH, PRESTON ROBB.

Associate Professors, Neurosurgery — GILLES BERTRAND, JOSEPH STRATFORD, JOHN BLUNDELL.

Associate Professor, Neurological Radiology — ROMEO ETHIER.

Associate Professor, Clinical Neurophysiology — PIERRE GLOOR.

Associate Professor, Neuropathology — GORDON MATHIESON.

Associate Professor, Neurochemistry — LEONHARD WOLFE.

Associate Professor, Clinical Psychology — Brenda MILNER.

Assistant Professors, Neurology — Albert Aguayo, Frederick Andermann, J. B. R. COSGROVE, BERNARD GRAHAM, IRVING HELLER, ALLAN SHERWIN, W. F. T. TATLOW.

Assistant Professors, Neurosurgery — CHARLES BRANCH, HAROLD ELLIOTT, ROBERT FORD, HENRY GARRETSON, PHANOR PEROT.

Assistant Professors, Neurological Radiology — JEAN VEZINA, DENIS MELANÇON.

Assistant Professor, Neurochemistry — HANNA PAPPIUS.

Assistant Professor, Neuropathology — STIRLING CARPENTER.

Assistant Professor, Clinical Neurophysiology — ROGER BROUGHTON.

Assistant Professor, Neuroelectronics - RALPH JELL.

Lecturers, Neurology — MORRISON FINLAYSON, ROBERT NELSON.

Lecturer, Clinical Neurophysiology — ISRAEL LIBMAN.

Assistant Professors, Neuroanatomy — JACQUES COURVILLE, ALLAN MORTON.

Demonstrators, Neurology - J. GRIMES, K. KALYANARAMAN, M. LECHTER, J. NORRIS, G. ROHRER, Z. SAYEED.

Demonstrators, Neurosurgery — G. ASHBY, W. McCANN, A. ROBERGE.

Demonstrator, Neuropathology — V. MONTPETIT.

Demonstrator, Electroencephalography — Lewis Henderson.

Research Associate — Y. LUCAS YAMAMOTO.

Fellows of the Montreal Neurological Institute — S. Ambhanwong,

M. Barwick, J. Bulcke, J. Callahan, G. Chong, F. Coceani,

M. COPTI, P. CORSI, E. DAIGLE, A. DAVID, J. DAVIS, C. DILA, M. DROLET,

A. EISEN, J. EISENRING, G. ERBA, P. FRAGATOS, E. GABA,

E. GARCIA-FLORES, R. HALLAM, R. HOLLENBERG, M. JOUBERT,

F. LEBLANC, H. MARS, S. NUTIK, A. OLIVIER, C. PACE-ASCIAK, G. PATRY,

L. Poglisi, L. Renaud, R. Romero, R. Sidhu, D. Skuce, L. Stern,

D. UPHOFF, Y. USHIO, N.-S. WONG, J. WOODS.

SECOND YEAR

2A Introduction to the Central Nervous System. Combined course given by the Departments of Anatomy, Neurology and Neurosurgery, Physiology and Psychology. Lectures, laboratory work and clinical demonstrations during the second and third terms.

Professors McNaughton, Gloor, Courville and Staff

2B Instruction in Clinical Examination of the Nervous System. Given in conjunction with the Department of Medicine in the third term. (Course II 2)

2C Neuropathology. Given in conjunction with the Department of Pathology.

Professors Mathieson and Carpenter

2D Applied Neurophysiology (Department of Medicine, Course II 1). Six lectures.

Professors Rasmussen, McNaughton and Staff

THIRD YEAR

3A Clerkship in Neurology and Neurosurgery. Five afternoons per week for two weeks, at the Montreal Neurological Institute.

Professors Rasmussen, McNaughton and Staff

3B Clinics and Conferences in Conjunction with the Departments of Medicine and Surgery.

FOURTH YEAR

Clinics and Conferences in Conjunction with the Departments of Medicine and Surgery.

ELECTIVE COURSES

Neuroanatomy.

600. This course is given in combination with course 2A "Introduction to the Central Nervous System."

601. Additional graduate seminars will be held co-ordinated with Course 611.

602. Preparation of a term paper on a neuroanatomical subject as arranged.
603. Advanced Neuroanatomy for selected group; times to be arranged.

Professors Courville and McNaughton

604. Ten weeks of research work in the third term elective period for Second year medical students.

Neurophysiology.

610. Lectures and examination together with undergraduate course Neurology and Neurosurgery 2A "Introduction to the Central Nervous System."

- 611. Weekly seminars and demonstrations co-ordinated with Courses 2A and 601 (four months, beginning in January). Mondays, 4:30 to 6:00 p.m.
- 612. Under exceptional circumstances, a paper on a neurophysiological subject may be written by special arrangement as a substitute for 610.
- 613. Ten weeks of research work in the third term elective period for Second year medical students.

 Professors Gloor and Wolfe
- 620. Colloquium in Clinical Neurology.

 1 hour weekly, clinics and lectures, Wednesdays, 5:00 p.m. M.N.I. (9 months).

 Staff and Visiting Lecturers
- 630. Seizure Mechanisms and Cerebral Localization: Clinical Electroencephalographic, and Roentgenographic Conference.

Alternate Thursdays, 4:00 to 5:00 p.m.

Professors Rasmussen, Broughton, Ethier, Gloor and Milner

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Neurochemistry.

640. Outline of Neurochemistry.

Instruction in Neurochemistry in addition to that provided in course B-2 may be obtained by special arrangement.

Professor Wolfe

641. Ten weeks of research work in the third term elective period for Second year medical students.

Neuropathology.

- 650. Six or twelve months laboratory work in Neuropathology.
- 651. Conference in Neuropathology, alternate Thursdays, 4 to 5 p.m.

 Professors Mathieson and Carpenter
- 652. Introduction to Histopathology of the Nervous System. A short basic course for a limited number. By special arrangement with Professor Mathieson.

For graduate credit, courses 650 and 651 are required. Under special circumstances written and/or oral examinations may be substituted for 650 and 652.

653. Ten weeks of research work in the third term elective period for Second year medical students.

Neurological Radiology.

- 660. Six or twelve months practical instruction in techniques and interpretation.
 - 661. Neuroradiology Seminar Tuesdays, 5-6 p.m., September-May.

 Professors Ethier, Melançon and Vezina

Electroencephalography.

- 670. Laboratory work in Electroencephalography (minimum of six months with active participation, seminars and conferences).
- 671. Lecture series and conferences in Electroencephalography. Fridays, 4:30-6:00 p.m., October and November, January and February.

 Professors Gloor, Lloyd-Smith, Broughton and Andermann

Neuropsychology

680. Ten weeks of research work in the third term elective period for Second year medical students.

Professor Milner

Clinical Neurology and Neurosurgery

690. Ten weeks of clinical or research work in Neurology at the MNI, Montreal General and Montreal Children's Hospitals.

691. Ten weeks of research work in Neurosurgery at the MNI, Montreal General and Montreal Children's Hospitals.

Professors McNaughton, Rasmussen and Staff

Diploma in Neurology (Dip. Neurol.)

Minimum prerequisites for entry to the Diploma Programme in Neurology are a degree from an approved medical college or school and one year's interneship in an approved hospital.

Applications for admission should be addressed to the Chairman, Department of Neurology and Neurosurgery, McGill University.

The programme is of four years' duration and consists of the following units:

- A. One year of work in one of the related basic sciences, such as neuropathology, neurophysiology (including E.E.G.), neuroanatomy, neurochemistry, neuroradiology, endocrinology, etc. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery, or in some other department of McGill University on the recommendation of the Chief of the Service and with the approval of the Chairman of the Department of Neurology and Neurosurgery. Preparation of a thesis or a paper approved for submission for publication by the Laboratory Chief and the Professor of Neurology and Neurosurgery (Dr. Rasmussen), will be required. This year may be used for work towards the M.Sc. degree in the Faculty of Graduate Studies and Research for requirements and registration procedure).
- B. Six months in psychiatry in the Department of Psychiatry at McGill University. (Note: Under special circumstances the candidates may substitute six months in the Department of Psychiatry in some other accredited hospital or university or additional training in neurology or medicine.)
- C. Six months in neurosurgery at the Montreal Neurological Institute. (Note: Under special circumstances a candidate may substitute neurosurgical training received in the neurosurgical department of some other accredited hospital or university or additional training in neurology or medicine.)
- D. Two years in clinical neurology, one of which must be at the Montreal Neurological Institute. The other year may be taken at other neurological centres with the approval of the Professor of Neurology and Neurosurgery and on recommendation of the Chief of the Neurological Service.

Before receiving the Diploma the candidate must successfully pass an oral examination in clinical neurology and neurosurgery.

Further information may be obtained by writing the Chairman, Department of Neurology and Neurosurgery, McGill University.

Diploma in Neurosurgery (Dip. Neurol. Surg.)

Minimum prerequisites for entry to the Diploma Programme in Neurosurgery are a degree from an approved medical college or school and one year's interneship in an approved hospital.

Applications should be addressed to the Chairman, Department of Neurology and Neurosurgery, McGill University.

The programme is of four years' duration and consists of the following units:

- A. One year of work in one of the related basic sciences, such as neuro-pathology, neurophysiology (including E.E.G.), neuroanatomy, neuroradiology, endocrinology, etc. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery, or in some other department of McGill University on the recommendation of the Chief of the Service and with the approval of the Chairman of the Department of Neurology and Neurosurgery. Preparation of a thesis or a paper approved for submission for publication by the Laboratory Chief and the Professor of Neurology and Neurosurgery (Dr. Rasmussen), will be required. This year may be used for work towards the M.Sc. degree in the Faculty of Graduate Studies and Research for requirements and registration procedure).
- B. Six months in clinical neurology at the Montreal Neurological Institute. (Note: Under special circumstances, credit for six months of clinical neurology in some other accredited hospital or university department of neurology or additional training in surgery, medicine or neurological surgery may be accepted.)
- C. Two and a half years in clinical neurosurgery at the Montreal Neuro-logical Institute and associated hospitals.

Note: Unit C, and either Unit A or B must be carried out in the Department of Neuropathology at the Montreal Neurological Institute.

Before receiving the Diploma the candidate must successfully pass a final oral examination on clinical neurology and neurosurgery.

Further information may be obtained by writing the Chairman, Department of Neurology and Neurosurgery, McGill University.

Far graduate courses in neurology and neurosurgery, see also the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

- Professors G. B. MAUGHAN (Chairman), R. A. H. KINCH.
- Associate Professors W. R. Foote, M. Hendelman, J. P. A. Latour, T. Primrose, F. J. Tweedie, M. H. Vincent Young.
- Assistant Professors P. R. Blahey, H. B. Bourne, J. L. Macarthur, E. A. MacCallum, Harry Oxorn, J. H. Routledge, D. W. Sparling, R. H. Usher.
- Lecturers G. H. Arronet, J. R. Dodds, Grace Donnelly, W. D. Fraser, Simon Gold, J. S. Henry, Jr., R. M. Parsons.
- Demonstrators N. J. Buka, J. E. Coffey, C. C. Lindsay, J. R. O'Brien, R. M. H. Power, Jr., L. D. Rhea, D. E. R. Townsend.
- Sr. Teaching Administrative Assistant P. D. DESJARDINS.
- Jr. Teaching Administrative Assistant R. M. CAPLAN.

Undergraduate Course

The course is designed to impart a fundamental knowledge, in theory and practice, of the processes of human parturition and gynaecology. The student is introduced to the subject in the First year. Thereafter in both the Third and Fourth years, intensive teaching is carried out using to the full the facilities of the Royal Victoria Montreal Maternity Hospital and the obstetrical and gynaecological unit of the Montreal General Hospital.

Required Courses

FIRST YEAR

Twenty-one hours are devoted during the final quarter of the First year to a co-ordinated intensive introduction to human reproductive biology using as a model concurrent studies in the field of embryology, anatomy and the particular biochemical and endocrine aspects of the subject. The course closes with a description of the physiology of pregnancy and labour. This course amplifies and defines those aspects of the Behavioural Sciences concerning reproduction which are taken during the same teaching term.

SECOND YEAR

During this year the student is introduced to the physical diagnosis of the female patient as part of a comprehensive course on physical diagnosis.

THIRD YEAR

The practical application and the art of obstetrics and gynaecology is emphasised in 6 week block teaching of small groups of students. Both hospitals participate equally in this work. Written, oral and practical examinations are given during and at the end of this phase and a passing grade is required before the student proceeds to the Fourth year.

FOURTH YEAR

During four week periods in either of the teaching hospitals students "live in" and participate fully as clinical clerks in all phases of the research, investigative and specialised work of the departments. Following the prepared programme ensures that the student will proceed to his final oral examinations well rounded in all phases of obstetrics and gynaecology.

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

Textbooks: N. J. Eastman and L. M. Hellman, Obstetrics (Appleton); Jeffcoate, Principles of Gynaecology (Butterworth); Ralph C. Benson, Handbook of Obstetrics and Gynaecology.

Ancillary reading: (1) Harry Oxorn and W. R. Foote, Human Labor and Birth (Appleton 1967); (2) Danforth, Textbook of Obstetrics and Gynecology (Harper & Row).

Graduate Programme

The Department of Obstetrics and Gynaecology directs a five-year graduate programme involving residency training in a number of English-speaking hospitals in Montreal, with lectures and seminars in both pre-clinical and clinical fields and opportunities for research. Minimum prerequisites for entry into this programme are a degree from an approved Medical College or School, one year's rotating interneship, and one year of Surgery or half a year each of Surgery and Medicine at the assistant residency level. Further information may be obtained by writing the Chairman, Department of Obstetrics and Gynaecology, McGill University.

DEPARTMENT OF OPHTHALMOLOGY

Professor of Ophthalmology — J. C. Locke (Chairman).

Professor of Ophthalmology and Biochemistry — S. LERMAN.

Associate Professors - S. T. ADAMS, J. V. V. NICHOLLS.

Assistant Professors — R. A. BOURNE, L. S. S. KIRSCHBERG, A. J. MCKINNA, S. B. MURPHY, WM. TURNBULL.

Lecturers — H. A. G. Duncan, J. A. Foreman, A. B. Leith, J. G. Little, D. Lorenzetti, R. W. Pearman, R. B. Ramsey, P. Rosenbaum.

Demonstrators — P. L. DAVIS, E. GORDON, K. R. SCHIRMER.

Undergraduate Courses

The undergraduate work in Ophthalmology is designed to meet the needs of a well-trained general practitioner and embraces the following courses:

SECOND YEAR

1. Routine Examination of the Eye. The various tests used in routine examination of the eye are demonstrated. Instruction in the use of ophthalmoscope is emphasized.

Five hours.

2. Pathology of the Eye. Six hours: two periods of three hours each.

THIRD YEAR

1. Lectures to the Entire Class. A survey of the entire field designed to furnish a background of essential information for the clinical work.

Twelve hours.

- 2. Practical Ophthalmoscopy. Montreal General and Royal Victoria Hospitals. Nine hours.
- 3. Elective Course in Ophthalmology. This intensive four-week course is given three times during the latter half of the Third year. The number of students in any four-week period is limited to two.

The classes include attendance at clinics, ward rounds and seminars; periods in the eye operating room; preparation of an assigned topic requiring consultation of current literature.

FOURTH YEAR

1. Practical Clinical Ophthalmology. Cases from the eye outpatient and indoor services are presented and discussed. Emphasis is on ocular problems that are of greatest moment in general practice.

Nine hours.

Texts: Francis H. Adler, Textbook of Ophthalmology, 7th ed. (Saunders, 1962); J. H. Allen, May's Manual of the Diseases of the Eye, 23rd ed. (Williams and Wilkins, 1963); Sidney Lerman, Basic Ophthalmology (Blakiston Divn., McGraw-Hill, 1966).

References: W. S. Duke-Elder, System of Ophthalmology 7 vols. (Kimpton, 1958-67); W. S. Duke-Elder, Textbook of Ophthalmology, 7 vols. (Mosby, 1932-54); Eugene Wolff, Anatomy of the Eye and Orbit (Blakiston, 1954); Eugene Wolff, Pathology of the Eye, 3rd ed. (Blakiston, 1951); Francis H. Adler, Physiology of the Eye, 4th ed. (Mosby, 1965).

Graduate Programme

The Montreal General and Royal Victoria Hospitals each conduct graduate programmes of residency training with scheduled lectures, seminars, case presentations and ward rounds. These programmes prepare candidates to meet the requirements for Fellowship of the Royal College of Surgeons of Canada and also the American Board of Ophthalmology. Detailed information concerning this programme may be obtained by writing the Ophthalmologist-in-Chief of each hospital.

DEPARTMENT OF OTO-LARYNGOLOGY

Professor — H. E. McHugh (Chairman).

Associate Professors — D. G. Doehring, R. P. Gannon (Experimental Oto-Laryngology), E. John Smith.

Lecturers — J. D. Baxter, Arnold Grossman, R. H. McCoy, W. H. Novick, G. Shimo.

Demonstrators — A. COHEN, M. N. LEVITT, R. MCMILLAN.

Undergraduate Courses

Instruction in Otolaryngology is given to students in the First, Second, Third and Fourth years and is designed to cover the practical clinical aspects of the specialty. Clinical courses are conducted on the wards and in the Out Patient Departments of the Royal Victoria Hospital, and the Montreal General Hospital. As much as possible, demonstrations are carried out before small groups of students.

FIRST YEAR

An introductory course in Anatomy of the Head and Neck is presented in the First year upon living subjects.

SECOND YEAR

During the study of the Anatomy of the Head and Neck, the students are given a special demonstration of the Ear, Nose and Throat Anatomy on living subjects. Physical diagnosis is also taught in six demonstrations. During these sessions, the students review the above-noted Anatomy and are taught to use in a proper fashion the special instruments necessary in ENT examination.

THIRD YEAR

"Block Time" clinical instruction is given to small groups formed into sessions of six mornings per group. In addition, twelve didactic lectures on special pathology of the ears, nose and throat are presented to this class by the Professor and his Staff for twelve consecutive weeks during one term.

FOURTH YEAR

Provisions are made for two students per week to "live-in" and thereby are able to actively participate in the Clinical Service during this time. They attend clinics, examine patients with supervision, participate in ward rounds, weekly conferences and observe in the operating theatres. They are encouraged to make presentations during this time and openly discuss the current problems seen under these circumstances.

ELECTIVE COURSES

Special arrangements are made for Elective Courses of one month duration in this specialty.

Graduate Programme

A residency training programme in Otolaryngology on the graduate level is conducted with rotation through the Royal Victoria, Montreal General and Montreal Children's Hospitals. This four year programme which includes one year of General Surgery is designed to prepare the candidate for the Certification and Fellowship examinations of the Royal College of Physicians and Surgeons of Canada and the examinations of the American Board of Otolaryngology. More detailed information may be obtained by writing to the Otolaryngologist-in-Chief, Royal Victoria Hospital, Montreal 2, Quebec.

A degree of M.Sc. in Otolaryngology is also available for students who have obtained their M.D. with appropriate prerequisites. More detailed information is available in the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF PAEDIATRICS

Professor — ALAN ROSS (Chairman).

Associate Professors — R. L. DENTON, K. N. DRUMMOND, D. A. HILLMAN, A. L. JOHNSON, C. R. SCRIVER, E. M. WORDEN.

Assistant Professors — H. L. Bacal, H. R. Brodie, E. Colle, J. E. Gibbons, E. S. Hillman, G. N. Nickerson, J. H. O'Neill, L. Stern, R. Usher.

Lecturers — P. Beaudry, M. Belmonte, J. S. Charters, D. K. Clogg, J. H. Elder, F. C. Fraser, V. C. Goldbloom, R. Gourdeau, E. Harpur, W. Jegier, S. Pedvis, M. Silverberg.

Demonstrators — H. Brickman, T. A. Cowan, A. H. Eisen, P. Fitzhardinge, D. R. McCrimmon, A. J. Markus, L. Pinsky, P. S. Senecal, H. Surchin, W. W. Tidmarsh, M. R. Wise, I. Wright.

REQUIRED COURSES

1. Introduction

(a) The recently organised course in Behavioural Science, Growth and Development, and Social Science serves as an important background for later paediatric teaching. The course is presented by teachers from a number of disciplines, including members of the staff of the Department of Paediatrics.

(b) A series of 6 lecture-demonstrations on Growth and Development in the last term of Second year.

2. Diseases of the Newborn: Royal Victoria Montreal Maternity Hospital:

- (a) A weekly clinic demonstration to groups of students of the Third year during their obstetrical quarter.
- (b) A weekly lecture to groups of Fourth year students during their four weeks in Obstetrics.
- (c) Six days of direct contact with normal and abnormal newborn infants during block time teaching in final year.

3. Clinical Paediatrics:

(a) Groups during the final year spend eight weeks largely at the Montreal Children's Hospital as clinical clerks with bedside clinical conferences and, under supervision, caring for patients in the outpatient department.

(b) Normal growth and development, the care and feeding of the normal infant, immunization procedures, and preventive paediatrics are taught at the Child Health Clinic in the Montreal Children's Hospital.

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

DEPARTMENT OF PATHOLOGY

Strathcona Professor — R. H. More (Chairman).

Professors — H. SHELDON, W. M. THURLBECK, F. W. WIGLESWORTH.
Associate Professors — D. S. KAHN, W. H. MATHEWS, G. MATHIESON,

M. J. PHILLIPS, W. J. PIROZYNSKI, G. RONA.

Assistant Professors — A. Angel, K. A. Barlow, J. B. Blennerhassett, S. Carpenter, J. S. Fawcett, S. N. Huang, J. Knaack, J. P. Latour, K. G. Marshall, S. Moore, M. R. Reesal, M. A. Simon, B. I. Weigensberg.

Lecturers — J. Beland, M. H. Finlayson, J. O. Lough, D. R. Murphy, A. Rona, P. Schopflocher.

Demonstrators — G. Berry, M. J. P. Galea, A. Hajdu, I. Kerner, M. B. Mackenzie, J. Richardson, B. Wolanskyj.

REQUIRED UNDERGRADUATE COURSES

1. Course in General Pathology (First year):

100. Illustrated lectures during the Spring term totalling 36 hours.

Professor More and Staff

101. Practical laboratory classes during the Spring term totalling 72 hours.

Professor Pirozynski and Demonstrators

2. Course in Special Pathology (Second year):

200. Illustrated lectures throughout the Second year totalling 72 hours.

201. Practical laboratory classes throughout the Second year totalling 72 hours.

202. Group demonstrations throughout the Second year totalling 72 hours.

3. Course in Applied Pathology (Third and Fourth years):

300. Clinico-pathological Conferences alternate weeks throughout the Third year totalling 54 hours.

400. Instruction in the performance of autopsies with demonstration of autopsy findings during the Fourth year.

Pathological Institute.

Montreal General Hospital.

Montreal Children's Hospital.

Professor Thurlbeck Professor Mathews Professor Wiglesworth

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF PHARMACOLOGY AND THERAPEUTICS

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Professors — M. Nickerson (Chairman), K. I. Melville. Associate Professors — B. G. Benfey, N. R. Eade, L. E. Francis,

B. A. KOVACS, J. R. RUEDY.

Assistant Professors — B. COLLIER, E. M. KOVACS, M. C. ROBERTSON,
D. R. VARMA.

Lecturers — F. HERR, R. I. OGILVIE, H. E. SHISTER, J. M. TRIFARO.

The objective of the courses in Pharmacology and Therapeutics is to provide an understanding of the properties and mechanisms of action of drugs as a basis for their rational use in therapy.

2. Pharmacological Principles. General survey of drug absorption, distribu-

tion, metabolism, excretion and mechanisms of action.

3. Pharmacology and Therapeutics. Systematic consideration of the pharmacodynamics of the more important groups of drugs, the factors which control and modify their actions, and the basis for rational selection and use of drugs in the treatment of disease.

ELECTIVES

Facilities are available for a limited number of students to undertake research in pharmacology in any year of their medical course or during the summer. Work in clinical pharmacology can also be arranged for students in the Third and Fourth years of the medical course.

DEPARTMENT OF PHYSIOLOGY

Professors — D. V. Bates (Chairman), F. C. MacIntosh, G. Melvill Jones.

Associate Professors — R. I. Birks, J. Q. Bliss, H. Garcia-Arocha,
P. Sekelj, K. G. Terroux.

Assistant Professors — T. M. S. Chang, R. F. P. Cronin, D. R. Firth, J. Milic-Emili, C. Polosa, E. J. Reininger.

Lecturers — R. P. Gannon, J. S. Kelly, J. Outerbridge, E. Rosenberg, A. Wechsler.

Sessional Lecturers — B. Collier, B. A. Cooper, J. H. Dirks, P. Gold, E. J. Hinchey, D. Pengelly.

REQUIRED COURSES

FIRST YEAR

Human Physiology.

This is an integrated course of lectures, demonstrations and laboratory work covering the major fields of human physiology. Some emphasis is placed on the clinical implications of basic physiological principles.

Lectures: Three hours a week. Laboratory: Four hours a week.

Introduction to Medicine.

One hour a week, from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are conducted in turn by the Departments of Anatomy, Biochemistry, and Physiology.

SECOND YEAR

Anatomy and Physiology of the Central Nervous System.

Two hours lectures, two hours laboratory, and one hour demonstration a week, during the second term.

This is one course, given by the Departments of Anatomy, Neurology and Neurosurgery, and Physiology.

ELECTIVE COURSES

Research in Physiology. A limited number of students may take Physiology as an elective subject in their Third year. These students will be given the opportunity of participating in departmental research projects. Summer employment in research laboratories is also available for a limited number of students.

OTHER COURSES

For other undergraduate courses in Faculty of Arts and Science, see the Announcement of that Faculty.

For graduate courses, see the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF PSYCHIATRY

Professors — R. A. Cleghorn (Chairman), H. E. Lehmann, R. B. Malmo, A. E. Moll, T. L. Sourkes, E. D. Wittkower.

Associate Professors — J. Aufreiter, M. K. Birmingham, H. Caplan,

B. M. CORMIER, T. E. DANCEY, H. B. DUROST, P. G. EDGELL, B. GRAD,

V. A. KRAL, H. KRAVITZ, D. J. LEWIS, Z. J. LIPOWSKI, J. G. LOHRENZ,

A. W. MacLeod, A. M. Mann, H. B. M. Murphy, E. G. Poser,

G. J. SARWER-FONER, M. STRAKER.

Assistant Professors - N. R. Aldous, F. Azima, T. A. Ban, S. Barza,

J. BEAUBIEN, C. G. Bos, C. H. CAHN, J. M. CLEGHORN, J. A. CORSON,

I. S. DISHER, S. Z. DUDEK, W. D. ENGELS, N. GREENBERG, D. P. HARRIS,

G. F. D. HESELTINE, L. G. HISEY, B. R. HUNT, L. A. KERWOOD,

E. KINGSTONE, E. P. LESTER, D. C. LEVIN, L. W. LEVY, F. W. LUNDELL,

C. F. C. MacPherson, D. J. McClure, H. F. Muller, J. Naiman,

Y. NERMAN, G. PETERFY, D. PIVNICKI, R. H. PRINCE, M. S. RABINOVITCH,

V. M. RAKOFF, A. E. SCHWARTZMAN, S. J. SHAMSIE, J. J. SIGAL,

C. C. SMITH, G. C. TAYLOR, J. R. UNWIN, G. WEISS, S. WILNER.

Lecturers — M. Amadeo, H. Ast, F. G. Aufreiter, H. A. Azim, J. R. Bayne, G. Berman, S. Bikadoroff, R. J. M. Boutin, R. Boyer, C. Cahill,

J. Casselman, G. Clerk, J. Cumberland, L. Dallaire, H. Davanloo,

R. L. DEVERTEUIL, J. M. DIVIC, H. E. ENESCO, R. B. FELDMAN,

K. G. Ferguson, K. R. Ferguson, H. Gelber, H. Grauer, J. D. Hackett,

E. S. HEATH, M. KENNEDY, E. K. KORANYI, F. E. KRISTOF, J. L. LAPOINTE,

A. P. N. LEE, S. LEVIN, E. LEVINSON, J. LEVY, F. H. LOWY, J. MACKAY,

G. J. MAGUIRE, A. F. MESZAROS, K. K. MINDE, G. F. MORGENSTERN,

R. C. Muir, A. K. Muller, E. J. Pinter, P. D. L. Roper,

J. SENDBUEHLER, R. M. SMITH, L. SOLYOM, S. L. SVED, B. TROSSMAN,

G. TURCOT, L. VACAFLOR, R. N. WALSH, H. WARNES, N. WISEBORD.

Sessional Lecturer — B. SILVERMAN.

Demonstrators — K. S. Adam, M. Almudevar, L. Arbitman, C. Benierakis, C. Cohen, G. Dasilva, E. G. Debbane, B. A. Gibbard, E. Iutcovitch,

M. Katz, G. LaRochelle, H. Malmo, R. C. McDonald, J. Montpetit,

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C. Novella, E. H. Pakes, G. C. Patton, I. Rebner, A. Russell,

G. Schneiderman, P. M. Segal, L. Sloman, L. G. Stern, M. Turski,

R. M. WINTROB.

REQUIRED UNDERGRADUATE COURSES

FIRST YEAR

Lectures and demonstrations — Behaviour, Growth and Development Course.

— An inter-departmental course is given throughout first year (see changes in medical curriculum).

It shows students the elements of behaviour in various settings, involutionary

and developmental levels, both phylogenetic, individual, family and social.

Direction of this Course is shared with Paediatrics.

Total time — 120 hours.

SECOND YEAR

Lectures and demonstrations. Teaching representation of the Department of Psychiatry will be included in the Central Nervous System block.

In the second quarter, Dr. H. E. Lehmann will demonstrate cases of psychiatric illness, and a brief series of lecture demonstrations will show an integrated approach to major behavioural problems.

Total time — 20 hours (Behaviour, by itself).

THIRD YEAR

Six weeks block teaching to acquaint students with the examination of patients and understanding of some of the major factors involved in abnormal behaviour. Diagnostic procedures, psychotherapeutic and physical methods of treatment, will be among the aspects covered. Students will be provided with tutors on a group basis and will also have more specialized training in the areas of child psychiatry, community psychiatry and mental disorders.

Professors Cleghorn, Moll, Dancey, Durost, Caplan, Silverman and Staffs

FOURTH YEAR

The teaching in this year will be largely focused on clerkship. Students will attend tutorials, ward rounds, seminars, conferences, etc., at the Allan Memorial Institute, Montreal General Hospital and Queen Mary Veterans' Hospital.

Professors Cleghorn, Moll, Dancey and Staffs

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

GRADUATE COURSES

DIPLOMA IN PSYCHIATRY (Dip. Psychiat.)

Minimum prerequisites for entry to the Diploma Programme in Psychiatry are a degree from an approved medical college or school and one year's rotating interneship in an approved hospital.

Applications for admission should be addressed to the Chairman, Department of Psychiatry, McGill University.

The programme is of four years' duration. Credit, not amounting to more than two years, may be given for study completed at other centres prior to enrolment at McGill University. In all instances, to qualify for the Diploma, the student must spend at least two years of graduate study in the Department of Psychiatry of McGill University in Montreal.

The Diploma Programme is organized to provide a comprehensive training for those preparing themselves for a career in the field of general psychiatry, and those who wish to proceed to specialized preparation in such fields as child, community, transcultural psychiatry, university teaching and research, or general hospital psychiatry with special emphasis upon psychosomatic work.

The first two years are devoted to establishing a fundamental knowledge of clinical conditions and of general therapeutic procedures. Special emphasis is laid upon psychopathology, psychodynamics and psychotherapy, and upon gaining experience in the full range of diagnostic and therapeutic procedures now in common use in psychiatry.

The last two years of the course provide considerable choice in courses and in training locations to meet the needs of those who wish special advanced experience in the special areas referred to above.

Increasing emphasis is now being placed upon research work. Students showing aptitude and inclination may spend a year either in the laboratories of the Allan Memorial Institute, or as a member of a field group, or on one of the clinical investigative teams at work in the various clinical teaching hospitals of McGill University.

Theoretical instruction and practical experience are closely and continuously integrated and the student is expected not only to participate in, but also to learn how best to use the major teaching procedures such as group therapy discussions, seminars, didactic lectures, case conferences, journal clubs, recorded interviews, as well as the one-way screen and movies.

Extensive use is made of the tutorial method of teaching, particularly in connection with psychotherapy. In each of the four years students are assigned to a tutor who is a member of the attending staff.

In addition to the training areas within the Department of Psychiatry, post-graduate students who have completed not less than two years' training may be assigned to the research teams and groups established in connection with the other clinical centres, where they work under the direction of a senior member of the research staff. Moreover, arrangements are possible with other departments within the University for periods of special study: for instance, with the Montreal Neurological Institute for special instruction and experience in neurology, or with the University Clinic of the Department of Internal Medicine for special advanced work in the psychosomatic field. At least six months' work in a mental hospital will be required.

Students are expected to have sufficient knowledge of English to participate adequately in seminar instruction and to benefit from their clinical experience.

Before receiving the Diploma the candidate must pass an examination during the Second year and again at the end of the Fourth year.

Further information may be obtained by writing the Chairman, Department of Psychiatry, McGill University.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE IN PSYCHIATRY See the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF RADIOLOGY

Professor — JEAN BOUCHARD (Chairman).

Associate Professors — J. S. Dunbar, R. G. Fraser, M. Lougheed,

D. J. SIENIEWICZ.

Assistant Professors - R. A. BEIQUE (Physics), B. B. HALE.

Lecturers - F. A. GRAINGER, J. J. HAZEL, F. ROBT. MACDONALD,

G. H. MAGUIRE, C. J. POWEL-SMITH, L. ROSENTHAL.

Demonstrators — W. J. Alexander, J. H. Gagnon, J. D. Gibson, M. J. Herba, R. O. Hill, J. Kiss, M. B. Nogrady, J. L. Vezina, R. E. Wilson.

UNDERGRADUATE COURSES

FIRST YEAR

Normal Roentgen Anatomy with special attention to functional changes in the skeletal and the several visceral systems.

In co-operation with the Department of Anatomy Professor Bouchard and Staff 메

SECOND YEAR

Introduction to Radiology including the basic principles and application of radiation physics, radiation biology and physiology in diagnosis and therapy by means of ionizing radiations.

Professor Sieniewicz and Staff

THIRD YEAR

(a) Clinical Radiology — a systematic exploration of radiologic evidence of disease and the therapeutic applications of ionizing radiations; weekly conferences while the students are attending Internal Medicine and Surgery in the teaching hospitals.

Professors Bouchard, Sieniewicz, Fraser and Staff

(b) Elective: A tutorial period, with opportunity for the student to explore the radiological features of some special disease, entity or syndrome in one of the teaching hospitals.

Professors Bouchard, Fraser, Sieniewicz and Staff

FOURTH YEAR

Clinical Radiology continued in the programme initiated in the Third year while attending Internal Medicine and Surgery with the addition of Paediatrics.

Professors Fraser, Sieniewicz, Lougheed, Dunbar and Staff

GRADUATE COURSES

(a) DIPLOMA IN RADIOLOGY (Dip. Radiol.)

Minimum prerequisites: Degree from an approved medical faculty, college or school; one year of general rotating interneship; appointment on the Resident Staff in Radiology of one of the teaching hospitals for this Faculty.

Required Studies: Four years of postgraduate study in diagnostic and/or therapeutic radiology including radiation physics, radiobiology and pathology in

the University and its teaching hospitals.

Advanced credit may be allowed by the Departmental Committee for graduate study in radiology and/or cognate fields (internal medicine, clinical surgery or the basic sciences) in approved institutions or teaching hospitals elsewhere, but not in excess of two of the required four years. Studies pursued in the basic sciences should be of a quality acceptable in partial fulfilment of the requirements for the M.Sc. degree.

In addition to a thorough grounding in general medical radiology, in so far as practicable arrangements may be made for the candidate to pursue studies in the special fields pertinent to his chosen division, such as the diagnostic radiologic interest in neurologic and paediatric diseases or the diagnostic and therapeutic interests of nuclear medicine in the therapeutic division.

Preparation of a scientific paper, under supervision of his tutor or as co-author, will be expected of each candidate.

Both written and oral final examinations are required.

The didactic programme of the Diploma Programme and the associated clinical studies are fully accepted à propos the specialist certification by the several qualifying bodies.

Further information may be obtained from the Chairman, Department of Radiology, McGill University.

(b) MASTER OF SCIENCE (M.Sc.)

For information relative to the M.Sc. degree, see Announcement of the Faculty of Graduate Studies and Research or inquire of the Chairman of the Department.

DEPARTMENT OF SURGERY

Professors — Fraser N. Gurd (Chairman), LLOYD D. MACLEAN, DAVID R. MURPHY, H. ROCKE ROBERTSON.

Associate Professors — A. R. C. Dobell, J. R. Gutelius, J. C. Luke, H. S. MORTON, H. F. MOSELEY, H. F. OWEN, J. D. PALMER, H. J. SCOTT, A. G. THOMPSON, F. M. WOOLHOUSE.

Assistant Professors — H. E. BEARDMORE, N. J. BELLIVEAU, P. E. BLUNDELL, W. M. Couper, A. C. Derby, J. C. Dickison, J. A. Drummond, M. A. Entin, R. L. Estrada, L. G. Hampson, I. W. D. Henderson, E. J. HINCHEY, F. G. INGLIS, A. F. JONES, G. M. KARN, R. N. LAWSON, R. C. LONG, D. D. MUNRO, W. L. OGILVY, D. W. RUDDICK, E. J. TABAH, G. K. WLODEK.

Lecturers — J. H. DUFF, A. N. FREEDMAN, G. W. LEHMAN, D. T. LIN, A. P. H. McLean, E. D. Monaghan, J. R. Moore, H. R. Shibata, I. SHRAGOVITCH, J. A. S. WILSON.

Demonstrators — D. K. Black, L. Drake, J. H. Duff, L. J. Genender, A. Hreno, P. Madore, K. G. McCulloch, R. D. Midgley, R. V. Moralejo, F. V. Nicolle, S. Pitzelle, H. H. Sigman, H. D. STEVENS, H. B. WILLIAMS, A. MCB. WRIGHT.

DIVISION OF EXPERIMENTAL SURGERY

Professors - Fraser N. Gurd (Chairman), LLOYD D. MACLEAN, DAVID R. MURPHY, H. ROCKE ROBERTSON. Director, Division of Experimental Surgery — LLOYD D. MACLEAN. Assistant Director — GEORGE K. WLODEK.

Associate Professors — G. Bounous, S. C. Skoryna. Assistant Professors - D. M. EDWARD, J. GORDON, E. J. HINCHEY,

H. F. JEEJEEBHOY, A. H. MCARDLE, EDITH ROSENBERG, G. K. WLODEK. Lecturer — T. SAKAI.

N.B.: See the Announcement of the Faculty of Graduate Studies and Research.

DIVISION OF ORTHOPAEDIC SURGERY

Associate Professors — J. M. McIntyre, J. E. Miller, J. G. Petrie. Assistant Professors — I. BITENC, R. L. CRUESS, C. L. WILSON, W. E. WILSON. Lecturers — A. A. Butler, H. F. Farfan, N. S. Mitchell, E. C. Percy, J. L. Shugar, R. G. Townsend.

Demonstrators — D. B. FORBES, F. A. H. GREENWOOD, G. R. MURPHY, I. YABLON.

DIVISION OF UROLOGY

Associate Professors — K. J. MACKINNON, E. C. REID.

Assistant Professors — J. B. Dossetor, J. T. MacLean, J. A. Oliver, J. Susset.

Lecturers — I. J. DE DOMENICO, H. RABINOVITCH.

Demonstrators — N. Halpern, W. F. Lingard, D. D. Morehouse, T. Nearing, Y. Taguchi.

REQUIRED UNDERGRADUATE COURSES

SECOND YEAR

Surgical teaching begins in the Spring term (12 weeks) of the Second year. In this year special attention is directed to the instruction and training of the student in proper methods of physical examination from the surgical point of view.

2A. A Course of Lectures (12) is given covering the basic principles of Surgery.

2B. Group Classes in the wards of the Montreal General and Royal Victoria and Queen Mary Veterans' Hospitals. At these, small groups of students are instructed in methods of examination as applied to surgery and its allied specialties.

THIRD YEAR

The student comes into a more intimate contact with the patients, and in the surgical term of eight weeks is assigned cases, writes case reports, acts as dresser, and assists at operations. His clinical work is confined to one hospital — either the Montreal General Hospital or the Royal Victoria Hospital.

3A. Discussions concerning material covered in an assigned reading course will be held in the Montreal General and the Royal Victoria Hospitals one day

3B. Group Ward Classes in the Montreal General and the Royal Victoria Hospitals, five times a week during the term.

3C. Case Reporting. Patients are allotted to students who act as reporters, dressers, and assistants at operations.

FOURTH YEAR

In the Final year the student spends eight weeks attached to the surgical service of a hospital. During four of these weeks the student is required to live in the hospital.

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

SURGICAL DISEASES OF CHILDREN

Some instruction in the surgical diseases of children is given during the trimester in which the students are assigned to paediatrics at the Montreal Children's Hospital as follows:

4A. Group Ward Classes three times a week throughout the trimester.

In their Final year students attend either the Shriners Hospital or the Montreal Children's Hospital for further instruction in paediatric surgery.

ORTHOPAEDIC SURGERY

Some lectures covering the basic principles of orthopaedic surgery are given in the Second year and members of the Orthopaedic Staffs of the Montreal General Hospital and Royal Victoria Hospital participate in the Second and Third year bedside clinics.

In the Final year seminars are conducted by members of the Orthopaedic Staff.

UROLOGY

In the Final year students are assigned to the Urological Services of the Montreal General Hospital and Royal Victoria Hospital for one week and, in addition to this, ward classes are held three times a week in each hospital.

GRADUATE COURSES

DIPLOMA IN UROLOGY (Dip. Urol.)

Minimum prerequisites for entry to the Diploma Programme in Urology are a degree from an approved Medical College or School, one year's rotating interneship in an approved hospital, and two years of training in general surgery or divided between general surgery and pathology or some other basic science.

Applications for admission should be addressed to the Chairman, Department of Surgery, McGill University.

The course is of three years' duration. The three years are spent as a member of the resident staff in the Department of Urology of the McGill University Teaching Hospitals. Throughout the three-year period, during the academic sessions, lectures or seminars are held one night each week. Through the co-operation of the Department of Medicine each candidate spends four months in the Renal Laboratory.

No examination is held. The Diploma is recommended on the satisfactory completion of the three year training programme.

For other graduate courses in Surgery, see the Announcement of the Faculty of Graduate Studies and Research.

BUILDINGS

THE McINTYRE MEDICAL SCIENCES BUILDING

This building contains the Offices of Administration, the Medical Library, the Osler Library of the History of Medicine, the Departments of Biochemistry, History of Medicine, Pharmacology and Physiology and a number of special research units.

THE STRATHCONA MEDICAL BUILDING

This building contains the Department of Anatomy, the Department of Investigative Medicine and the Faculty of Dentistry.

THE PATHOLOGICAL INSTITUTE

This building was opened for use in October 1924. The construction of a seven-storey wing, completed in June 1966, provided a total area of approximately 140,000 square feet of laboratory and teaching facilities. The Institute is situated on the north-east corner of University Street and Pine Avenue adjacent to the

Montreal Neurological Hospital and the Royal Victoria Hospital. It is occupied by the Departments of Microbiology and Immunology, of Epidemiology and Health, and of Pathology. The building has extensive facilities for teaching, research and diagnosis.

THE MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. The construction of the McConnell Wing, opened in 1953, approximately doubled both the clinical and laboratory space. With excellent equipment and facilities for research, as well as the medical and surgical tractment of disorders of the previous research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neurosurgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine and the Montreal Neurological Hospital for the care of patients with organic diseases of the nervous system. In addition to wards, operating rooms, and laboratories for treatment and study of diseases of the nervous system, the building provides facilities for graduate study and research in the related fields of basic science.

THE ALLAN MEMORIAL INSTITUTE

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building was reconstructed to permit of the establishment of a fifty-bed unit, together with extensive research laboraories, and was officially opened July 12, 1944.

In 1946 the first day hospital in the world was opened at the Institute and in

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1953 a fifty-bed wing was added.

In 1963 a research and training building was added by McGill University thus providing one of the most extensive and modern research areas.

Both undergraduate and postgraduate teaching are carried on at the Institute.

THE DONNER BUILDING

The Donner Building for Medical Research, adjacent to the Strathcona Medical Building, was completed in September 1948. Its erection was made possible through the generosity of William H. Donner of Philadelphia, the late founder of the international Cancer Research Foundation, who provided the funds necessary for the construction of a building entirely devoted to medical research. It has recently been renovated through the generous assistance of the Donner Foundation.

The building houses the Maxwell Lauterman Laboratories for Surgical Research and the Gastrointestinal Research Institute and also provides facilities for

many types of medical and surgical investigation.

HOSPITALS

The following hospitals and institutions are at the disposal of the teaching staffs and students for clinical and pathological study:

Royal Victoria Hospital Montreal General Hospital Montreal Children's Hospital Queen Mary Veterans' Hospital Alexandra Hospital for Infectious Diseases Douglas Hospital Royal Edward Chest Hospital Royal Victoria Montreal Maternity Hospital Montreal Neurological Hospital

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical Faculty. These affiliated hospitals contain over 6,000 beds.

The Royal Victoria Hospital comprises the following units under one administration:

The Main Building; The New Medical Wing; The New Surgical Wing; 3.

The Ross Memorial Pavilion for private patients;

The Women's Pavilion - Royal Victoria-Montreal Maternity;

The Allan Memorial Institute.

The total bed complement is 1,018, with 115 bassinets. Admissions total over 24,000 and confinements are in excess of 3,800 a year. There are more than 125,000 visits annually to the Outpatient Department. The University Clinic was established lished in 1924 and has facilities for both clinical laboratory work and research.

Post-mortems are conducted in approximately 60 per cent of the deaths.

The number of resident physicians is 212.

The Montreal Neurological Hospital, consisting of the hospital activities of the Montreal Neurological Institute, is situated across the street from the Royal Victoria Hospital and constitutes the Department of Neurology and Neurosurgery for this hospital. There are 135 beds, including a paediatric unit, for the care and investigation of patients with organic diseases of the nervous system. There are approximately 2500 admissions yearly, about half to the Neurological Services and half to the Neurosurgical Services. Approximately 1100 surgical procedures are carried out each year.

The Royal Victoria-Montreal Maternity Pavilion, with 197 beds for obstetrical and gynaecological cases. In this institution there are 117 teaching beds and an organized outpatient service which is of the greatest benefit to the undergraduate student. In a typical year, the obstetrical service cares for over 3,800 confinements in the Hospital. In the gynaecological section, over 2,800 cases are admitted during the year.

There are 22 resident physicians.

The Montreal General Hospital has a bed complement of 750 for the treatment of acute diseases. In a typical year, there are approximately 20,000 admissions and 150,000 consultations in the Outpatient Department. The resident and interne staff numbers 130.

The "Montreal General" was founded in 1821; two smaller buildings downtown had preceded it in 1816 and 1819. In age, therefore, it is not the oldest hospital in Canada, but its record in clinical teaching is one of the longest on the North American continent.

From the time the Hospital was opened, its staff began to arrange for students and, in 1823, they opened the first Medical School in Canada, the Montreal Medical Institution, with 25 students. Teaching was carried on partly at the Hospital. It was this School which agreed to form the Medical Faculty of McGill University in 1829; the beginning of a long and intimate association between the Hospital and the University.

The present buildings on Cedar Avenue were occupied in 1955.

The Montreal Children's Hospital has 367 beds (65% public beds), and, in a typical year, admits 12,000 patients. The attendance at its outdoor department totals over 136,000 clinic visits. This hospital admits all classes of cases of disease in children except pulmonary tuberculosis and the communicable diseases, and enables students to get a broad concept of paediatrics.

There are 235 autopsies in a typical year, representing 90% of all deaths. The number of resident physicians is 100.

Queen Mary Veterans' Hospital has 700 active treatment beds and 1,200 beds at Ste. Anne's Hospital, Ste. Anne de Bellevue for rehabilitation, geriatrics and

psychiatry.

The hospital was taken over by the Department of Veterans Affairs in August 1946, with affiliations of consulting, attending and resident staff which were set up in collaboration with the Medical Schools of McGill University and l'Université de Montréal.

Admissions are over 7,500 a year and include not only veterans, but serving members of National Defence, Merchant Navy, Immigration, R.C.M.P., personnel returning from the Tropics, and groups from other Government Departments.

The outpatient attendance is approximately 100,000 annually and the post-

mortem rate is about 85%.

Active treatment and research are maintained in all the usual fields and, in addition, there are special departments: Paraplegics, Plastic Reconstruction and Prosthetics (construction, alterations and fitting of artificial limbs).

The resident physician appointments number 74 and 6 of these rotate through

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Ste. Anne's Hospital.

All specialties, except Obstetrics and Paediatrics, are covered.

The Alexandra Hospital for Infectious Diseases, opened in 1906, with modern wards, cubicles and equipment is regularly attended by students who receive demonstrations on the essential features of all the common acute infectious diseases and tuberculosis.

There are three wards for the treatment of tuberculosis in children and tuberculous meningitis in adults and children. There are 150 beds (including 50 for tuberculosis) and the average yearly admissions range between 800 and 1,000.

There is a resident senior physician and two junior rotating physicians.

Douglas Hospital was opened in 1890. It is a psychiatric hospital for the treatment of emotional and mental diseases and with its 1,760 beds serves mainly the English-speaking communities of the Province of Quebec. There are also facilities for adolescent behaviour problems and children with mental disorders.

The hospital is directed by a private Board of Governors but admits non-paying patients on the basis of a contract with the Provincial Government. There are approximately 1,700 admissions per year and in the After Care Clinic about 2,000

patients are seen during the year.

The medical staff consists of 22 psychiatrists, 6 physicians and 22 psychiatric residents who are registered with the McGill Diploma Programme in post-graduate psychiatry; some 20 consultants in the various medical specialties also visit the

hospital regularly.

Third year undergraduate medical students of McGill University spend three weeks on the wards of the hospital as part of their psychiatric teaching. The hospital provides clinical instruction and training of nurses, nursing assistants, occupational therapists, psychologists and social workers, and field work experience for post-graduate training of professional personnel. An active research programme is carried on in the basic and clinical aspects of human behaviour.

The Royal Edward Chest Hospital has as its objectives the study, prevention and treatment of Tuberculosis and diseases of the chest. It operates on an Out-patient Department and In-patient basis. The Out-patient Department includes an Anti-Tuberculosis Dispensary and a Chest Clinic. The Hospital contains a 100-bed Non-Tuberculous Chest Condition Unit and a 24-bed Tuberculous Unit. Its facilities include Operating Rooms and Laboratories and it maintains an active research programme. Residency appointments number 10.

THE MEDICAL LIBRARY

Medical Librarian — RODOLPHE C. LAVERGNE.

The Library contains approximately 100,000 volumes. It is located on the second, third and fourth floors of the McIntyre Medical Sciences building. The entrance to the Library is on the third floor, near the elevators. On this floor are found the circulation desk, the reference department, the catalogue, the book collection, part of the journal collection and the study rooms. The second and fourth floors hold mostly journals and additional seating. The Library offices are located on the second floor.

The chief value of the Library is in its periodical collection. About 2,000 journals are received currently in almost all languages. The book collection is especially noteworthy in the ophthalmological section due in large measure to many gifts from the late Dr. Casey A. Wood.

The Library is for members of the teaching staff and students of the Faculty and of the whole University, and for research workers and doctors in the city. An extensive interlibrary loan service throughout the country is maintained.

The Library is open during the academic session from Monday to Friday, 9 a.m. to 10 p.m. September to March; 9 a.m. to 11 p.m. April to mid-June; Saturday 9 a.m. to 5 p.m. After June 15 the hours are 9 a.m. to 5 p.m. Monday to Friday, closed Saturday.

There are also small libraries and collections of books and journals located in several Departments of the Faculty.

THE OSLER LIBRARY OF THE HISTORY OF MEDICINE

The two-storey wing extending out from the third and fourth floors of the McIntyre Medical Sciences Building is the Osler Library and is entirely devoted to the medical-historical collection. Besides library offices and stack space, this Library consists of two reading rooms, the Wellcome Camera, accessible through the Main Reading area of the Medical Library on the third floor, and the Osler Room beyond the Camera.

The collection, consisting of about 25,000 volumes in the history of medicine and its sciences, has, as a nucleus, the 8,000 volumes bequeathed to McGill by one of its most famous pupils and teachers, Sir William Osler. It is especially this portion which is rich in 15th, 16th, 17th, and 18th century medical books. In addition, all books printed before 1850 have been transferred from the Medical Library to this collection. The rest of the collection has been purchased by the Osler Library itself, especially since 1957, a generous grant from the Wellcome Trust having made active growth of the Library possible. The Library is constantly adding to the collection, especially new books on the history of all aspects of medicine and medical people.

All books in the collection are available for use within the Library and the vast majority of them are loanable. Undergraduates and all interested persons may use the Library except as restricted by the attending Library staff. For the holdings of the Library, users are urged to consult the card catalogue, and the book catalogue entitled *Bibliotheca Osleriana*, both of which are in the Wellcome Camera. At present, the collection is not completely catalogued anywhere else in the University.

MEDICAL SOCIETIES

McGILL MEDICAL STUDENTS' SOCIETY

The Society is an association of all registered medical students. Acting through its Council, which is composed of elected and appointed student representatives, the Society performs two main functions:

1) to represent the medical student body in all its dealings with the Medical

Faculty, and

2) to regulate all Society affairs, e.g., Medical Ball, Banquet, Essay Competition.

In performing its first function, the Society leaders act as a liaison between faculty and students on all matters of mutual interest and concern. Recent items of mutual concern have been scheduling of Fourth year studies, hours of library operation, and the status of McGill medical students in the Province of Quebec.

The second main function involves the organization of the medical student extracurricular life as it exists. Besides sponsoring social functions, the Society publishes a quarterly journal, The McGill Medical Journal, which contains reports of student research and scholarly articles on many aspects of medicine. The Society also publishes a monthly Bulletin to inform students of current news and upcoming events, and an annual yearbook, The Speculum.

Active participation in Society affairs is one of the best ways of complementing the medical school experience.

ALPHA OMEGA ALPHA HONOUR MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate, and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic careers, have shown promise of development and have attained honour rank. They are eligible for election in the Third and Fourth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

OSLER SOCIETY

The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes students from each class in the faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.

Faculty of Medicine

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McGill University FACULTY OF MEDICINE

ADMINISTRATIVE OFFICERS

H. ROCKE ROBERTSON, B.Sc., M.D., C.M., D.C.L. (Bishop's), LL.D. (Man., Tor., Vict., Glas., Dartmouth and Mich.), D.Sc. (U.B.C.), D. de l'U. (Montr.), F.R.C.S. (Edin.), F.R.C.S.(C), F.A.C.S. Principal and Vice-Chancellor M. K. OLIVER, B.A., M.A., Ph.D. Vice-Principal (Academic) ROBERT F. SHAW, C.C., B.Eng., D.Sc. (McM.), M.E.I.C.

Vice-Principal (Administration)
C. A. WINKLER, O.B.E., M.Sc. (Man.), D.Phil. (Oxon.), Ph.D., F.C.I.C., F.R.S.C.

Vice-Principal (Planning and Development)

MAURICE McGREGOR M.B. B.Ch. M.D. (Rand), M.R.C.P. (Lond.)

MAURICE McGREGOR, M.B., B.Ch., M.D. (Rand), M.R.C.P. (Lond.), F.R.C.P.(C)

Dean

ROBERT F. P. CRONIN, M.D., C.M., M.Sc., M.R.C.P. (Lond.), F.R.C.P.(C)

Associate Dean (Postgraduate Medical Education)

JOHN R. GUTELIUS, B.A. (Montr.), M.D., C.M., F.R.C.S.(C), F.A.C.S.

Associate Dean (Graduate Studies and Research)
D. G. KINNEAR, B.Sc., M.D., C.M., F.R.C.P.(C), F.A.C.P.

Associate Dean (Admissions)
R. NEIL MacDONALD, B.A. (Tor.), M.D., C.M., F.R.C.P.(C)

JOHN G. HAMPSON, B.Com., C.A.

JOHN G. HAMPSON, B.Com., C.A.

MRS. JOY M. SHANNON

J. H. HOLTON, B.Com. (Tor.)

Associate Dean (Medical Education)

Business Officer of the Faculty

Executive Secretary of the Faculty (acting)

Secretary of the Board of Governors

ALLAN C. McCOLL, D.F.C., B.Com., C.A.

Director of Finance

COLIN M. McDOUGALL, D.S.O., B.A.

Registrar

TUTORS 1969-1970
FIRST YEAR TUTORS

D. BATES
M. BELMONTE
J. BLUNDELL
P. R. BROMAGE
G. CANTLIE
H. CAPLAN
L. A. CASSIDY
D. K. CLOGG
R. L. CRUESS
J. DOSSETOR
J. DUFF
R. R. FORSEY
R. GLEDHILL
E. S. HILLMAN
G. KARPATI

R. A. H. KINCH D. M. MARCUS A. P. H. McLEAN R. MIDGLEY N. MITCHELL H. F. MIZGALA E. D. MONAGHAN D. A. MURPHY D. R. MURPHY B. NOGRADY J. OLIVER H. F. OWEN W. H. PALMER P. ROBB G. WEISS B. WHERRET B. WILLIAMS M. WISE

SECOND YEAR TUTORS

F. ANDERMAN	D. A. HILLMAN
M. BALL	J. HINCHEY
J. O. BLISS	C. H. HOLLENBERG
P. BLUNDELL	A. L. JOHNSON
J. H. Burgess	D. KAHN
A. R. C. DOBELL	G. KARN
N FADE	L. McCallum
W. E. ENGELS	E. McGarry
W. FELDMAN	Jo MILLER
M. H. FINLAYSON	C. MINDE
P. FITZHARDINGE	D. MOOREHOUSE
P. Gold	M. SNARCH
J. GUTELIUS	J. B. I. SUTHERLAN
T. R. HALE	J. R. UNWIN

Separate Announcements are available for the School of Physical and Occupational Therapy, and the School for Graduate Nurses.

Details of Scholarships, Bursaries, Prizes, Medals, and Loan Funds are given in the Scholarships Announcement, which may be obtained from the Registrar's Office.

Administrative Offices of The Faculty of Medicine are in The McIntyre Medical Sciences Building, 3655 Drummond St., Montreal 109

FACULTY OF MEDICINE

and

The one hundred and thirty-seventh session of the Faculty will open on September 3, 1969 for students of all years.

FOUR-YEAR PROGRAMME IN MEDICINE

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Associate Dean, Room 609, McIntyre Medical Sciences Building, or from the Registrar's Office.

As the number of students in each class is limited, application should be made early and in any case not later than December 15. Each application must be accompanied by a non-returnable fee of \$5.00 in the form of a cheque or money order payable to McGill University.

A fee of \$50.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

REQUIREMENTS FOR ENTRANCE

 (a) Total Academic Credits: The minimum requirement for admission to the medical programme is the satisfactory completion of three full years of study in a recognized college or Faculty of Arts and Science in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. Preference is given to those who have completed the work leading to a B.A. or B.Sc. degree.

(b) Scientific Requirements: In the scientific branches, certain subjects are specifically required:

Chemistry, two full courses, including general chemistry and organic chemistry, with laboratory work.

Physics, one year with laboratory work.

Biology, or zoology, one year with laboratory work. (Of this, a half year must consist of zoology.)

(c) Cultural Requirements: These must be selected in such a way as to be in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. These would commonly include credits in English literature and composition, and in mathematics. In addition, a working knowledge of the French language is helpful for 3rd and 4th-year medical students. It is advisable that each applicant present evidence of such preparation.

(d) All candidates for admission to the Medical Faculty are required to take the Medical College Admission Test conducted by The Psychological Corporation (304 East 45th Street, New York, N.Y. 10017) or to furnish an explanation of why they are unable to do so. This test should be taken not later than the spring of the Third year of undergraduate study.

2. In selecting courses, in addition to the specific requirements listed above, an intending medical student should plan his pre-medical programme as a whole, and in accordance with a definite educational objective. Emphasis should be laid on the broad educational value and the intellectual training afforded, rather than on the factual content of such pre-medical curricula; the student is therefore advised to plan his programme in such a way as to provide more than elementary training in some definite field of learning which appeals to him; this major field may be selected from the natural or the social sciences or the humanities. Certain subjects which though not essential have been found valuable in medical study, and which may be included as electives if the curriculum in the major field permits, are psychology, sociology, and genetics.

In general, students are advised not to anticipate medical school courses in physiology, histology, bacteriology, and biochemistry at the expense of a fundamental training as outlined above.

On the other hand, for students who desire preparation in excess of the minimum requirements, a considerable degree of specialization in the sciences, such as an Honours degree, or a Master's degree, in physics, chemistry, biology, physiology, or bacteriology, may prove to be advantageous.

The students' attention is called to the memorandum printed in the Announcement of the Faculty of Arts and Science for the guidance of those who wish to enter Medicine.

EQUIVALENT STANDING

A student of another medical school who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official statement of his preliminary education and of the medical programme he

has followed and the standing he has obtained. This should be accompanied by a calendar of the medical school in which he has studied, giving a full statement of the course of study, and by a certificate of moral character and conduct.

The equivalent courses of study in schools recognized by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the recognized school, but the student may be required to pass such examinations, individual or comprehensive, as may be required by the Faculty.

REGISTRATION

Students in the Faculty of Medicine will register at the McIntyre Medical Sciences Building Cafeteria on Tuesday, September 2, 1969. Those who register late will be required to pay a late registration fee of \$5.00 if they register during the first week of the session and \$10.00 if they register during the second. The fee will not be refunded except by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

FEES

The University reserves the right to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions described in the General Announcement.

UNIVERSITY FEES

1.	COMBINED PROGRAMME IN SCIENCE AND MEDICINE First, Second and Third years Fourth to Sixth years Seventh year	800.00
2.	FOUR-YEAR PROGRAMME IN MEDICINE	
	First to Third years Fourth year	800.00 805.00
3.	REPEATING STUDENTS	
	Students repeating a year pay full fees.	
4.	AD EUNDEM FEE	
	Students entering any year above the First, pay a special ad eundem fee of	\$ 10.00

GENERAL REGULATIONS

 Students entering the University for the first time are required to pay their fees either by mail or in person at the Accounting Department.
 The first instalment is due within 10 days after registration, the second instal-

ment before January 15, 1970. A late payment fee of \$10.00 is charged for payment during the first 30 days after registration. A late payment fee of \$25.00 is charged thereafter.

 Students who have completed one or more years and intend to register in the succeeding year must pay one half of the total sessional fee by mail or in person to the Accounting Department before August 26, 1969, otherwise they will not be permitted to register. Instructions for paying fees in advance will be mailed to all upper year students, either with their Reports of Sessional Standing or a short time later. Students who have been notified by the University of the award of a scholarship, bursary or student loan, and who require this for payment of the first instalment of fees, must obtain from the Student Aid Office, McGill University, a Permit to Delay Payment of Fees.

The second instalment is due January 15, 1969. A late payment fee of \$5.00 is charged for payment after the specified dates.

3. Students registering late must pay their fees at the time of registration, failing which they become subject to the late payment fee and the provisions of the following paragraph:

As soon as possible after the prescribed dates for the payment of fees the Chief Accountant will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

All fees are payable in Canadian currency.

For further information and for a list of special fees see the *General Announcement*.

MICROSCOPES

Each student on beginning his studies is required to provide himself with a first-class microscope for laboratory and private study throughout his course. The Medical Faculty has examined a large number of student monocular microscopes and has agreed upon specifications which it regards as best suited to student requirements. Copies of these specifications are circulated by the Dean's Office to all students entering the Faculty of Medicine.

The University does not rent microscopes to medical students.

BOARD AND RESIDENCE

For details of board and residence and an estimate of expenses, see the General Announcement.

HEALTH SERVICE

For details of the Health Service and medical examinations see the General Announcement.

CHANGES IN THE MEDICAL CURRICULUM

The Faculty of Medicine has instituted a major curriculum revision, certain features of which were introduced into the programme of the First-year class in the Fall of 1967. This class will graduate by 1971, and changes which involve the Second, Third and Fourth years of the medical curriculum will be introduced as the class enters its subsequent years. These changes are:

(a) Implementation of an expanded elective programme;

(b) Increased incorporation of clinical material into the basic science programme of the first two years;
(c) Introduction of a Behavioural Science course to the First-year curriculum;

(d) Institution of a course in "Integrated Teaching" in the third quarter of

the Second year.

The expanded elective programme has been introduced to enable the student to play a significant role in his education, and to engender an independent and discriminatory approach to learning — necessary in the continuing process of self-education, and vital to the practice of good medicine in later professional life.

In addition, the elective programme may provide an opportunity for medical students to make earlier career choices, and it will enable them to return to a study of the basic medical sciences at a time when they have had significant clinical exposure.

This programme is being implemented by introducing the following curriculum

changes:

Extension of the academic year to 40 weeks in the first two years, and to 36 weeks in the Third year.

The provision of a ten-week "block" of elective time in the Second year, during the final ten weeks of the session.

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The provision of a nine-week "block" of elective time in the Third year such elective time to be taken during any of the four "blocks" into which this year is divided.

Provision of a major elective "block" in the Fourth year - (the exact time assignment for elective work in the Fourth year has not been established, but a minimum period of nine weeks is contemplated).

The increased use of clinical material in the basic science courses will give greater relevance to the body of knowledge which First- and Second-year students must acquire. The continuing integration of clinical material throughout the 4 years should stimulate student interest and provide an improved knowledge of the basic sciences and a greater understanding of their importance as a background for sound clinical practice.

BEHAVIOUR, GROWTH AND DEVELOPMENT COURSE

This course, consisting of 120 hours of lectures, demonstrations and visits, is planned to introduce the student as early as possible to certain aspects of the clinical field, particularly those of behaviour, growth and development.

The student is given an opportunity to learn about a series of clinical and technical emotionally-tinged situations. Interviewing is introduced, utilizing audiovisual aids and rating scales, which permits participation of the class as a group.

Other sections introduce the student to psychosomatic interactions, the developing individual in families and groups, problems of separation, and the subjective side of illness, chronic disease and death. This part has been under the aegis of the Department of Psychiatry.

The second portion of the course, directed by the Department of Paediatrics, deals with genetic factors related to growth and development, pre- and perinatal adaptation, adolescence, sexual maturation and adjustment, and the problems of senescence and aging.

The course is multi-disciplinary, given by teachers from a number of sciences and specialties. While the Department of Medicine provides most of the staff, outstanding teachers in the fields of zoology, anthropology, sociology, philosophy, social work, psychology, and the clergy are also included.

In the third quarter of the Second year, an experiment in the development of an integrated teaching programme will be introduced. The programme, which will consist of instruction organized by subject committees rather than by departments, will be presented at the time that students are exposed to physical and laboratory diagnosis. This will re-inforce an appreciation of the close relationship existing between the pre-clinical and clinical disciplines, and lead to a closer rapport between the various departments contributing to the integrated programme.

As the new curriculum will be introduced to the Second, Third, and Fourth years of the programme in 1969, 1970, and 1971, respectively, all our department listings in this Announcement may not reflect the changing curriculum. For more detailed information, please contact the department or departments concerned.

MODIFIED FOURTH YEAR

The Faculty of Medicine has recently introduced a full 12-month clerkship in the Fourth year. It is anticipated that the students will rotate through the major clinical services during this year, and on each of these services they will occupy a well-defined position as a regular member of a clinical teaching unit, with increased responsibility for patient care.

It is believed that the introduction of the full Fourth year clerkship will establish a more appropriate gradient of responsibility, allowing a senior student to have an excellent opportunity to improve on the major gains in clinical skills and professional maturity made during the Third year. In addition, it is generally believed that postgraduate training should not be rigidly separated from the undergraduate experience, and that a concept of a continuum of education should be established. It is expected that the full 12 month clerkship will aid the development of this concept, while allowing the student on graduation to enter directly into specific postgraduate training programmes.

Significant elective time will be available within the 52 week block; in addition, a 4-week holiday is provided. All students will qualify for a stipend of \$188. a month, from the Provincial Government, during their senior year.

Curriculum Review

The Faculty realizes that there is a need for constant review of the medical curriculum necessitated by:

- A. Current rapid advances in scientific knowledge.
- B. Probable changes in the role of the medical school in relation to the community with concomitant changes in the delivery of health care.
- C. Continued application of principles developed in the field of general educational science to medical education.

Therefore a permanent student-faculty curriculum committee operates within the Faculty of Medicine. This Committee is charged with the task of studying the necessity for further curriculum revision, and planning the implementation of any modifications thought desirable.

COURSES FOR THE DEGREE OF M.D., C.M.

The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including

- (a) four years of medical study in the University leading to the degree of M.D., C.M.; and
- (b) one year of interneship in an approved hospital.

While the Faculty's administration exercises a general supervision of arrangements for interneships, the Faculty of Medicine assumes no responsibility to provide an interneship for any student.

A certificate that his medical education is completed and that he is eligible to sit for the examination of a licensing board shall not be issued to any graduate until the University is in possession of satisfactory evidence that he has completed the full requirements.

The arrangement of the principal subjects of instruction is usually as follows:

FIRST SESSION

Anatomy (including Embryology), Histology, Physiology, Biochemistry, Behavioural Science Course, General Pathology, History of Medicine.

SECOND SESSION

Central Nervous System (Neuroanatomy, Neurophysiology, Psychology), Medical Microbiology, Epidemiology & Health, Special Pathology, Behavioural Science Course, and Introduction to Clinical Sciences (a co-ordinated programme instructing the student in basic clinical skills), Medical Jurisprudence, Elective.

THIRD SESSION

Epidemiology and Health, Medicine, Surgery, Obstetrics and Gynaecology, Medical Jurisprudence, Neurology and Neurosurgery, Paediatrics, Pharmacology, Ophthalmology, Otolaryngology, Radiology, Elective.

FOURTH SESSION

Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Paediatrics, Ophthalmology, Otolaryngology, Radiology, Elective.

EXAMINATIONS

The examinations taken within the Medical Faculty are divided into two groups, namely major examinations and minor examinations. Major examinations are the final examinations in Anatomy (Embryology), Histology, Physiology, Biochemistry, Pharmacology, Medical Microbiology, Special Pathology, Epidemiology and Health, Paediatrics, Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Central Nervous System.

The examinations in Medicine, Surgery, Obstetrics and Gynaecology, and Psychiatry at the conslusion of the Third Session are ranked as major examinations, even though they are not the final examinations in these subjects.

Minor examinations include the final examinations in General Pathology, Behavioural Science Course, and Introduction to Clinical Sciences.

A student who fails in any major examination will be required, before he writes a supplemental examination, to present to the Dean's office from the senior professor of the department concerned a certificate that the student has taken sufficient extra tuition as would indicate that he has reviewed the subject and is a suitable candidate for the supplemental examination.

There is a strict difference between the importance of a major and a minor examination. If a student fails in the supplemental of a major examination, there are definite restrictions as shown below, but if he fails in the supplemental of a minor examination he is permitted to carry conditions as shown below.

A student is not allowed supplementals in three major examinations in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student is not allowed supplementals in two major and one minor examination in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

Unless the Promotion Committee finds special mitigating circumstances, a failure in the supplemental of a major examination will require the student to repeat his year, and no student may repeat such a year more than once. Any student who fails in the supplementals of two major examinations in any one year shall be required to retire without the privilege of further supplementals.

A student who fails in the supplementals of three or more minor examinations in any one year must repeat this year or may be asked to retire, as may be decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

A student who fails in the supplementals of not more than two minor examinations may proceed with other subjects in the following year, carrying such subjects as conditions, but may not sit any subsequent major examinations until the conditions have been removed, nor may he carry more than two conditions at one time.

All conditions must be removed by the end of the first term (November) in each session when additional supplemental examinations will be held. Failure in any of these will require the student to revert to his previous year and to repeat the courses of the Winter and Spring terms.

A student in his final year may take a supplemental examination in one subject only, but must present a certificate from the senior professor of the Department concerned that he has taken extra tuition in this subject in one of the teaching hospitals of the McGill Faculty of Medicine. If he should fail in this supplemental examination, he must repeat the year of study and pass all the major examinations at the completion of the session.

A student in his final year who fails in two subjects will not be permitted supplementals but must repeat the year or retire, as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student will not be allowed to repeat a year more than once nor may he repeat a subsequent year if such repetition has been due to failure in examinations, except on special recommendation of the Promotion Committee, acting upon the motion of the representatives on the committee of the Department concerned.

A student who has been permitted to repeat his year must attain an overall average of 65% in order to continue in his programme.

Examinations, tests, reviews, etc. will ordinarily be held during the session only at the end of the twelve week terms. It is understood that such examinations, tests or reviews are conducted for the benefit of the student in order that he may have experience in the requirements of the sessional examinations, and further, that he and his teachers may know he is progressing in his studies. In the Fourth year final examinations will be held at the end of each rotation.

There shall be Promotion Committees for each year, consisting of representatives, appointed by the Dean, of the Departments offering major or minor examinations during that year, and the Dean (ex officio). Each Committee will pass on all cases of students who fail to satisfy course requirements in the respective year.

Results of all examinations will be released by the Dean's Office only, after they have been passed upon by the Promotion Committee. It is an absolute rule that no examination results shall be communicated by any other channel.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent. There can be no appeal from this decision.

GRADING

At the conclusion of each course, students are graded in three groups as follows: U = Upper Third of class, M = Middle Third of class, L = Lower Third of class.

In addition students who do not obtain a clear passing mark are graded as either D (doubtful) or E (failure).

By regulation of the Faculty of Medicine, a student is not permitted more than one "D" grade in the examinations of a single year. In the presence of other "D" or "E" grades, all "D" grades are automatically converted into failures by the Promotion Committees.

The grade assigned to a student is based primarily upon the results of the Final Examination, but the instructor also takes into account the record of the work done throughout the course.

REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

- 1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.
- 2. He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than nine months each in this University or in some other university, college or school of Medicine, approved by this University.
- 3. No one is permitted to become a candidate for the degree who has not attended at least two full sessions at this University.
- 4. Every candidate for the degree must have passed all the required examinations in the subjects comprising the Medical course.
- 5. He must have attended the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University and the practice of the Montreal Children's Hospital; and must have acted as clinical clerk in medicine, surgery, paediatrics and psychiatry and have fully reported upon the prescribed number of cases.
- 6. He must also have attended the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.
- 7. Every candidate must also have administered anaesthetics, under direction, at least six times.

REQUIREMENTS FOR LICENCE

Candidates accepted for admission are reminded that it is their personal responsibility to ensure that they fulfil all the licensing requirements of the country in which they intend to practise medicine. A university degree does not confer the right to practise. In each province of Canada, in each one of the United States and in all other countries the authority to license is vested in a licensing body which has its own special laws and requirements. In many cases a special standard of general education is insisted upon before beginning the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained.

Candidates accepted for admission should therefore communicate as soon as possible with the licensing body of the country in which they intend to practise and obtain from that licensing body the necessary instructions.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards as follows:

QUEBEC - Dr. A. Roy, 1440 St. Catherine St. West, Montreal 107, P.Q.

ONTARIO - Dr. J. C. C. Dawson, 64 Prince Arthur Ave., Toronto 5, Ont.

New Brunswick — Dr. John R. Nugent, 112 Carleton St., Saint John, N.B. Nova Scotia — Dr. M. R. Macdonald, Victoria General Hospital, Halifax, N.S.

PRINCE EDWARD ISLAND — Dr. R. G. Lea, 170 Fitzroy St., Charlottetown, P.E.I.

Manitoba - Dr. M. T. Macfarland, 201 Kennedy St., Winnipeg 1, Man.

ALBERTA - Dr. W. Bramley-Moore, 9901 - 108th Street, Edmonton, Alta.

SASKATCHEWAN — Dr. G. W. Peacock, 932 Spadina Crescent E., Saskatoon, Sask

BRITISH COLUMBIA — Dr. W. G. McClure, 1807 West 10th Avenue, Vancouver 9, B.C.

NewfoundLand — Dr. G. M. Brownrigg, 47 Queens Road, St. John's, Newfoundland.

DOMINION REGISTRATION

In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board to the effect that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, 77 Metcalfe Street, Ottawa 4, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance at lectures, practical work, and clinics are also accepted by the various examining boards in Great Britain.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

GRADUATE PROGRAMMES LEADING TO DIPLOMAS IN THE CLINICAL DEPARTMENTS OF THE FACULTY OF MEDICINE

The Faculty of Medicine conducts graduate courses leading to Diplomas in Anaesthesia, Neurology and Neurosurgery, Psychiatry, Radiology and Urology.

INQUIRIES

Initial inquiries and inquiries of a general nature should be addressed to the Associate Dean (Postgraduate Medical Education) of the Faculty of Medicine.

Inquiries about the details of individual diploma programmes should be addressed to the Chairman of the department concerned.

REQUIREMENTS FOR ENTRANCE

The minimum requirements for entrance to a diploma programme are (a) a degree from an approved medical college or school and (b) at least one year's interneship. Details of the requirements are set forth under the individual diplomas.

Credit may be given for study completed elsewhere than at McGill University, but to qualify for a diploma, the student must spend at least two years of graduate study and training in a clinical department of the Faculty of Medicine of McGill University.

APPLICATION FOR ADMISSION

Application forms may be obtained from the Associate Dean (Postgraduate Medical Education) or the Chairman of the department concerned. The completed form should be submitted by the candidate to the Chairman of the appropriate department. If the application is approved by the department, this form is then sent to the Dean of the Faculty of Medicine for his approval.

FEES

There is a registration fee of fifteen dollars to be paid each year on registration except when the student is enrolled in the Faculty of Graduate Studies and Research.

REGISTRATION

The various diploma programmes in the clinical departments of the Faculty of Medicine lead to the award of diplomas by McGill University. Every student enrolled in such a programme must therefore be registered as a student of McGill University.

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On beginning the actual course of study leading to a diploma the candidate must complete three copies of the Sessional Application Form. These are obtainable from the Secretary of the Faculty of Medicine or the Chairman of the department concerned. These forms, completed by the student in triplicate, are submitted to the Chairman of the department for his signature and then to the Dean of the Faculty of Medicine for his signature. One of the three forms will be retained by the Dean and the other two are for the office of the Registrar of McGill University. After registration and payment of fees have been completed the student returns one copy of the form to the Chairman of his department and keeps the other.

These procedures of completion of the Sessional Application Form in triplicate, with signing by the Chairman of the department and the Dean, registration and payment of fees must be carried out annually at the beginning of each year of the diploma programme. If the student has been posted to an out-of-town centre for the session involved, registration forms will be mailed to him by the Registrar, on request.

The final date for registration is October 1. If a candidate is permitted to enter a diploma programme later than October 1, registration must be carried out within one month of the commencement of the programme.

If, during his academic year, the student is enrolled in the Faculty of Graduate Studies and Research, he must complete the procedures described above in addition to those required by the Faculty of Graduate Studies and Research, except that a registration fee for the diploma programme is not required in that particular year.

It is the responsibility of the student to ensure that the Sessional Application Forms are completed and that registration and payment of fees are carried out.

GRADUATE STUDIES AND RESEARCH IN THE MEDICAL SCIENCES

Facilities for graduate work in the basic medical sciences and in the clinical sciences are offered by many of the Departments of the Faculty of Medicine.

Research in relation to clinical disciplines is carried out in the research laboratories at the Montreal Children's Hospital, the Montreal General Hospital and the Royal Victoria Hospital. Graduate work in the clinical sciences is supervised by those members of the Departments of Medicine, Surgery and Paediatrics who are responsible for the direction of research programmes; and for administrative purposes graduate work in these areas is grouped under the Department of Experimental Medicine, and the Division of Experimental Surgery, which is a branch of the Department of Surgery.

Inquiries concerning research education in the medical sciences may be directed to the appropriate Departmental Chairman or to:

ASSOCIATE DEAN FOR GRADUATE STUDIES & RESEARCH THE FACULTY OF MEDICINE MCGILL UNIVERSITY MONTREAL, QUEBEC.

ENROLMENT AS A PARTIAL STUDENT IN FACULTY OF GRADUATE STUDIES AND RESEARCH

In the case of a student who is not proceeding to an M.Sc. or Ph.D. degree, but for whom the committee in charge, on the recommendation of the tutor, considers it important that the student should spend some time in study in one of the medical sciences, individual arrangements will be made by the Chairman of the department, either directly or through the student's tutor with the Chairman of the medical science concerned. Such students will be enrolled in the Faculty of Graduate Studies and Research and will be governed by the rules and regulations of this Faculty in regard to fees, etc., applicable to partial students.

COURSES OF INSTRUCTION

DEPARTMENT OF ANAESTHESIA

Professor and Chairman — R. G. B. GILBERT.

Wellcome Research Professor — K. KRNJEVIC.

Professor - P. R. BROMAGE.

Assistant Professors — H. F. Don, G. Ellison, A. Joyal, H. Keszler, P. Otton, A. Pace-Floridia, J. K. Rosales, G.-H. Sirois, J. B. I. Sutherland, D. Trop, J. E. Wynands.

Lecturers — H. E. Brown, E. M. Dunkley, S. G. Fox, G. L. Houle, A. Matzko, A. W. McDonald, J. L. McWatt, M. E. Morris, F. A. Robillard, C. A. Sheridan, F. R. H. Wrigley.

Demonstrators — D. A. FIRTH, D. GILLIES, E. W. LARKING, A. N. MUNGALL, P. QUAN.

UNDERGRADUATE COURSES

A student in Medicine, before reaching that part of the curriculum which deals with clinical anaesthesia, will have acquired during his earlier years at the university an introduction into the Basic Sciences on which the discipline of Anaesthesia is hased.

During the Second year a series of lectures is presented on clinical anaesthesia and its related areas. At these sessions the student is instructed in the Physiopathology of patients undergoing anaesthesia and surgery, the basic properties of anaesthetic drugs and the principles underlying anaesthetic techniques. This series will serve as a background for the administration of anaesthesia and the care of patients undergoing surgery.

In the Fourth year there is opportunity for the student to spend a limited time in the operating room working directly with an anaesthetist.

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate Elective Catalogue. Detailed information can be obtained from the Associate Dean (Medical Education). An elective is also offered during any of the undergraduate years to work in one of the anaesthesia laboratories.

GRADUATE AND CONTINUING EDUCATION COURSES

Diploma in Anaesthesia (Dip. Anaes.)

Minimum prerequisites for entry to the Diploma Programme in Anaesthesia are a degree from an approved medical college or school and one year's rotating interneship in an approved hospital. Foreign students may be subject to further requirements such as the E.C.F.M.G.

Applications for admission should be addressed to the Chairman, Department of Anaesthesia, McGill University, 3801 University St., Montreal.

The programme is of three years duration. Up to one year of credit may be given for work done elsewhere at a centre approved by the Chairman. Candidates, once enrolled, may under certain circumstances spend one of the three years at another centre, provided this meets with the approval of the Chairman of the department. In all instances, to qualify for the Diploma the student must spend at least two years of graduate study in the Department of Anaesthesia of McGill

Each student is assigned for clinical work to one of the participating hospitals. Having spent twelve months in the hospital to which he was first posted, the student is then rotated every six months through a number of hospitals within this framework. Some of the hospitals are specialized and others are general.

During each appointment of six months, the Residents are directed by the staff members of the particular hospital where that residency is being served. Seminars are held weekly according to a programme which is the same for all hospitals. Some departments hold sessions which are set aside for review of the literature, while others have special sessions for the discussion of interesting cases. All the hospitals have excellent library facilities, and the libraries of the medical faculty are also accessible.

On the first Monday in each month there is a departmental meeting moderated by the Chairman. There may be presentation of cases of interest, recent advances or a guest speaker.

Every second month a written examination, which refers to the seminar subjects of the previous two months, is set for all residents.

Postgraduate Basic Science Series

The Postgraduate Basic Science Series of lectures for all medical and surgical disciplines is followed where the topics are of importance to the specialty. In addition, four series of lectures are given: pharmacology or biochemistry before Christmas, and anatomy or physiology after Christmas.

The granting of the Diploma is subject to complete satisfaction in all the clinical rotations and Applied Basic Science courses. The Chairman and Chiefs of clinical departments reserve the right to dismiss at any time all those whose work is unsatisfactory or who appear to have chosen the wrong medical specialty.

The Wellcome Anaesthesia Research Department, established jointly by the Wellcome Trust and the University, operates in association with the Department of Anaesthesia. It offers both a basic study of anaesthetic mechanisms, and courses of study leading to post-doctoral degrees.

Annual Advanced Course in Anaesthesia

This course is held during the month of May and is open to those sitting examinations in the fall and to those already in anaesthetic practice. At this course, the Wesley Bourne lecturer participates in the teaching sessions.

A clinical refresher course lasting one week is held annually at the Royal Victoria Hospital during the month of February.

Guest Professor

Annually, a visiting professor spends a week in the Clinical Departments. Further information on any aspect of this Department can be obtained by writing to the Chairman, Department of Anaesthesia, McGill University.

DEPARTMENT OF ANATOMY

Professors — C. P. LEBLOND (Chairman), S. M. BANFILL, Y. CLERMONT, D. G. OSMOND.

Associate Professor — N. J. NADLER.

Assistant Professors — J. Courville, C. Huckins, B. Kopriwa, P. K. Lala, B. L. Thompson, H. Warshawsky.

Lecturers - E. P. ASTON, R. A. BROWN, A. HERSCOVICS, A. MORTON, J. WARD, A. WEINSTOCK.

REQUIRED COURSES

1. Gross Anatomy.

Dissection and lectures cover the gross anatomy of the body. The course includes Embryology, Surface and Radiological Anatomy and an introduction to Clinical Anatomy.

2. Introduction to the Central Nervous System. For Second year students and conducted with the co-operation of the Departments of Neurology and Neurosurgery, Physiology and Psychology. This course is listed under the Department of Neurology and Neurosurgery as 2A.

3. Applied Anatomy. Designed for graduate students.

Texts: E. Gardner, D. J. Gray, R. O'Rahilly, Anatomy, 2nd ed. (W. B. Saunders, 1963). D. F. Davies, Gray's Anatomy, 34th ed. (Longmans, 1967). J. C. B. Grant, An Atlas of Anatomy, 5th ed. (Williams and Wilkins, 1962). J. T. Aitken et al., A Manual of Human Anatomy, 2nd ed., 5 vols. (Livingstone, 1964). J. Langman, Medical Embryology (Williams and Wilkins, 1963).

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

4. Advanced Neuro-Anatomy. Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton. The class is limited to ten. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.

Microscopic Anatomy

REQUIRED COURSE

6. Histology. The study of the cytology and structure of tissues and organs. Texts: A. W. Ham, Histology, 5th ed. (Lippincott, 1965); W. Bloom and D. W. Fawcett, A Textbook of Histology, 8th ed. (Saunders, 1962).

Embryology

REQUIRED COURSE

8. The Study of Human Developmental Anatomy. This course is integrated with 1. Gross Anatomy.

Texts: J. Langman, Medical Embryology (Williams and Wilkins, 1963); L. A. Arey, Developmental Anatomy, 6th ed. (Saunders, 1954); W. J. Hamilton et al., Human Embryology, 2nd ed. (Heffer, 1952).

For graduate courses, see the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF BIOCHEMISTRY

Acting Chairman — E. A. HOSEIN.

Professors — P. G. SCHOLEFIELD, SAMUEL SOLOMON.

Associate Professors — M. J. Fraser, E. A. Hosein, Rose M. Johnstone, D. Rubinstein, J. H. Spencer, T. Wood.

Assistant Professors — T. P. Brent, Eleanor M. Harpur, M. Manning, R. L. Momparler, A. R. Wasserman, T. E. Webb.

Lecturers - S. MACLACHLAN, M. R. REESAL.

Senior Biochemists in Other Departments

E. H. BENSLEY (Experimental Medicine), MARION K. BIRMINGHAM (Psychiatry), RHODA BLOSTEIN (Experimental Medicine), R. H. COMMON (Agricultural Chemistry), L. GOODFRIEND (Experimental Medicine), J. GORDON (Surgery), R. HARPUR (Parasitology), R. HOBKIRK (Experimental Medicine), S. LERMAN (Ophthalmology), CATHERINE MACPHERSON (Psychiatry), A. HOPE MCARDLE (Surgery), HANNA M. PAPPIUS (Neurology and Neurosurgery), A. SEHON (Chemistry), T. SOURKES (Psychiatry), M. W. SPENCE (Exp. Med.), B. WEIGENSBERG (Pathology), L. S. WOLFE (Neurology and Neurosurgery).

FIRST YEAR

Two periods of lectures and clinical demonstrations and four hours of laboratory work per week.

ELECTIVES

A limited number of students in their Second, Third and Fourth years may take their ten week elective periods in the Department. Students will be assigned

original research projects in the Department and under the direction of a member of its staff. They will also take part in all Departmental and group seminars and audit graduate courses. Students who plan to spend all three elective periods on one project will be particularly welcome and may hope to complete a useful piece of research.

OPTIONAL ADDITIONAL COURSES

For students who are interested in additional studies in Biochemistry current undergraduate and graduate courses in biochemistry are recommended. (See the *Announcements* of the Faculty of Arts and Science and of the Faculty of Graduate Studies and Research.)

DEPARTMENT OF EPIDEMIOLOGY AND HEALTH

Professors — J. C. McDonald (Chairman), M. C. WILLIAMS.

Associate Professors — M. R. BECKLAKE, L. DAVIGNON, F. D. K. LIDDELL, A. D. McDonald.

Assistant Professors — M. F. Bures, O. El Attar, C. A. Guzman, I. Horowitz, J. G. Lohrenz, P. V. Pelnar.

Lecturers — M. A. Bain, D. C. Bews, G. W. Gibbs, F. Kaufman, B. Pollak, M. G. Townsend.

Visiting Scientist - E. ADAM.

REQUIRED COURSES

SECOND YEAR

Epidemiology and health.

Basic course on the principles of epidemiology and medical statistics and their application to clinical and public health practice—three half days a week in the first quarter.

THIRD YEAR

Medical Jurisprudence.

Course of 9 lectures by speakers from the Faculty of Law.

ELECTIVE COURSES

SECOND YEAR

Medical Statistics.

Full-time course of tuition and laboratory work on statistical methods and study design relevant to epidemiology and experimental medicine. This elective is limited to 20 students and is intended for those contemplating a career in academic medicine or research. (Fourth quarter).

THIRD YEAR

Occupational Medicine.

Full-time course, half devoted to tutorials and laboratory work and half to practical experience in industry. Course limited to about 6 students, normally expected to have taken the elective in medical statistics. (Third quarter).

FOURTH YEAR

Epidemiology.

Full-time course, half given to tutorials on methods and applications and half to individual student research. Course limited to about 6 students normally expected to have taken the elective in medical statistics. (Second quarter).

DEPARTMENT OF THE HISTORY OF MEDICINE

Associate Professor — D. G. BATES (Chairman). Lecturer — E. H. BENSLEY.

REQUIRED COURSE

History of Medicine (First year). A series of 20 lectures providing a survey of

the natural, social and intellectual background to modern medicine.

From time to time, and at the request of other departments, single lectures are given on the history of special subjects within courses being taught by those departments.

ELECTIVE

Advanced Work and Research. Opportunity is offered for a limited number of students to pursue advanced work or research in the history and philosophy of medicine, its sciences, and public health. See elective catalogue for details.

DEPARTMENT OF INVESTIGATIVE MEDICINE

Professor — J. S. L. BROWNE (Chairman).

Associate Professors — C. J.-P. GIROUD, N. KALANT.

Assistant Professors — A. Carballeira, J. Stachenko.

Research Associate - S. SOLOMON.

Honorary Lecturers — J. GENEST, G. LEMIEUX, J. MARC-AURELE, W. J. NOWACZYNSKI.

Lecturers — C. Branchaud, C. I. Chappel, J. R. Ducharme, G. Klein, G. Leboeuf, B. Murphy, E. J. Pinter, R. Schucher, R. Wolfe.

The Department offers courses leading to the M.Sc. and Ph.D. degrees in the Faculty of Graduate Studies and Research and provides research facilities for these students or for other persons proceeding to graduate degrees, diplomas or for other qualified individuals. The Department is also prepared to make arrangements to offer elective courses for medical undergraduate students.

The courses and the direction of research in this department are given in close collaboration with the Department of Experimental Medicine and members of either department give lectures and direct the research of graduate students registered in the other.

Students may work either in the Medical Building or in one of a number of hospitals depending on the type of work done (clinical or laboratory) or upon the individual directing the research. Part of the function of the department is the

correlation of clinical investigation being done at various hospitals.

Students holding either the M.D. or B.Sc. degree or their equivalents may enter the department provided that their standing is acceptable. For the list of courses and further details see the Announcement of the Faculty of Graduate Studies and Research.

In the session 1969-70 the Department of Investigative Medicine will be merged with the Department of Experimental Medicine. Students registered in the Department of Investigative Medicine at that time will continue their studies and when they graduate will do so from the Department of Experimental Medicine. The Fall Convocation (1969) will be the last one at which students will graduate from the Department of Investigative Medicine.

Those students who are at present registered in the Department of Investigative Medicine will not be required to fulfil the Ph.D. language requirement of the Department of Experimental Medicine, but those registering for the first time in

DEPARTMENT OF MEDICINE

Professors — J. C. Beck (Chairman), D. G. Cameron, W. H. P. Hill, M. M. Hoffman, H. S. Mitchell, M. McGregor, J. M. McKenzie, S. R. Townsend.

Emeritus Professor — R. V. CHRISTIE.

Associate Professors — B. A. Cooper, R. F. P. Cronin, J. E. Dossetor, N. R. Eade, R. R. Forsey, S. O. Freedman, P. Gold, C. A. Goresky, G. W. Halpenny, C. H. Hollenberg, J. G. Howlett, A. L. Johnson, L. G. Johnson, M. Kaye, D. G. Kinnear, J. F. Meakins, J. H. McCharle, E. M. G. Johnson, M. Raye, D. G. Kinnear, J. F. Meakins, J. J. McCharle, E. M. G. Johnson, M. Raye, D. G. Kinnear, J. F. Meakins, J. J. McCharle, E. M. G. Johnson, M. Raye, D. G. Kinnear, J. F. Meakins, J. J. McCharle, E. M. G. Johnson, M. Raye, D. G. Kinnear, J. F. Meakins, J. F. Meakins, J. J. McCharle, E. M. G. Johnson, M. Raye, D. G. Kinnear, J. F. Meakins, J. F. Meakins, J. J. McCharle, J. G. Johnson, M. Kaye, D. G. Kinnear, J. F. Meakins, J. F. M

J. L. McCallum, E. McGarry, W. H. Palmer, E. A. S. Reid, L. Shapiro.

Assistant Professors — M. Aronovitch, C. M. Ballem, F. M. Bourne,

L. Brunton, J. H. Burgess, J. H. Darragh, K. G. Dawson,
N. M. K. DeLeeuw, J. Dupré, W. Gerstein, A. Gold,
D. G. Hawkins, J. L. Hutchison, J. Jepsom, G. E. Joron,
F. Kalz, A. W. Lapin, B. A. Levitan, A. D. MacDonald,
R. N. MacDonald, J. I. MacDougall, D. J. MacIntosh,
K. R. Mackenzie, J. R. Martin, I. G. Milne, L. Moroz, R. I. Ogilvie,
J. A. P. Paré, C. J. Pattee, J. S. Polson, J. R. Ruedy, P. Schopflocher,
P. Sekelj, J. A. Shanks, K. A. Sowden, C. H. Stacey, P. B. Stewart,
D. Stubington, P. Telner, A. T. Thom, D. L. Thomson,
R. D. Wilkinson.

Lecturers — E. Arendt, A. Aronoff, J. T. Arseneault, C. S. Barker, R. G. Baxter, J. O. W. Brabander, P. Bradley, J. L. Brandt, G. Cantlie, Wm. Cohen, F. Dirks, M. E. Dixon, R. E. Donevan, P. A. Edwards, S. L. Eidinger, P. A. Flint, A. Gordon, T. R. Hale, R. G. M. Harbert, J. G. Hellstrom, L. Kovacs, J. Krupey, W. Leith, C. C. MacDonald, F. Magill, D. M. Marcus, W. E. H. Mason, A. Miller, H. F. Mizgala, P. Mlynaryk, A. F. Nancekivell, G. Piasecki, R. E. G. Place, J. R. Rishikof, R. Shulman, R. L. Stanford, T. J. Sullivan, A. Tenpas, H. A. Warner, P. G. Weil, J. Wener, V. M. Whittehead, N. B. Whittemore, D. H. Woodhouse, L. A. Wright.

Demonstrators — J. R. Albert, D. Barza, L. W. Birmingham, L. E. Cassidy, M. S. Cohen, P. Chesney, S. R. Cooper, J. P. Couture, F. A. D'Abadie, H. Desjardins-McMillan, C. M. Flint, A. Gonda, M. A. Hickey, H. Z. Hollinger, A. B. Hood, G. A. Hutchison, J. Irwin, L. J. Korenberg, M. Kovalik, M. Kunstler, W. A. R. Laing, I. Lapin, B. W. Lavallée, J. F. Macdonald, N. MacIntosh, D. G. Mackay, T. Monks, M. B. Nestel, B. Pollak, J. Rubin, I. Winkler, G. H. Worsley, J. C. G. Young.

Experimental Medicine

Professors — D. V. Bates, E. H. Bensley, J. S. L. Browne, B. Rose, Samuel Solomon, R. Hobkirk.

Associate Professors — M. Becklake, J. Dirks, H. Friesen, J. Kessler, G. Klassen, B. Kovacs, Max J. Miller, P. T. Macklem, D. B. Tonks. Assistant Professors — N. R. Anthonisen, B. Bain, C. H. Bastomsky,

R. BLOSTEIN, K. G. DAWSON, E. L. FALLEN, H. G. FRIESEN, H. L. GOLDSMITH, L. GOODFRIEND, J. JEPSON, J. MILIC-EMILI, H. G. ROBSON, A. SAHA, J. SHUSTER, W. M. SPENCE, A. TENENHOUSE, J. I. WATSON.

Lecturers — B. R. Bhavnani, M. H. Gault, M. Vas. Demonstrator — E. Gonda.

THE UNDERGRADUATE CURRICULUM IN THE DEPARTMENT OF MEDICINE

FOREWORD

The object of the medical curriculum is to encourage in each student the development of critical judgment as he acquires a sound knowledge of the Basic Sciences essential to an understanding of disease processes, and supervised experience in their recognition and treatment of disease in a clinical setting. Personal contact between students and instructors at all levels is emphasized, and increasing use is made of new instructional aids.

A thorough understanding of the mechanisms of disease is provided by the Basic Science portion of the curriculum. This is consolidated and enhanced in the clinical years by association in the teaching hospitals with medical scientists working in the modern scientific laboratories devoted to clinical investigation. Every attempt is made to provide individual instruction wherever possible. Emphasis is given to a sympathetic understanding of the problems of sick individuals, as well as the treatment of their specific illnesses.

Required Courses

SECOND YEAR

Introduction to Clinical Sciences.

Time: Third term of Second year: ten weeks.

Place: The Teaching Hospitals.

Subject Material: Students are provided with facilities to secure clinical experience in a supervised manner, studying cases, case reporting, reading of textbooks and recent journals, all this in small groups, each led by an experienced clinical instructor. Routine laboratory tests are learned and applied at this time.

THIRD YEAR

Block Teaching in Medicine.

For a period of 9 weeks, each student spends his full day on the wards of one of the teaching hospitals. He studies individual cases, writes case reports, presents cases at the bedside, does routine laboratory tests on them, and perfects the skills he acquired in Second year. His work is closely supervised by Teaching Fellows, and bedside clinics are conducted at least twice a week by his Attending Staff instructor. Further assistance in understanding the meaning of the clinical expression of the diseases he encounters is provided for by intensive reading. There are regular instructional periods in Ophthalmology, Dermatology, Radiology, and Electrocardiography.

Physician-In-Chief rounds are held weekly.

FOURTH YEAR

Extensive experience in Medicine is provided in the Fourth year. The senior student becomes integrated into the team of staff, residents and internes, with an increasing share in the responsibility for the care of patients on the wards and in the Outpatient Department. An intramural programme of seminar teaching in specialty subjects is provided as well during this time.

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate Elective Catalogue. Additional information can be obtained from the Associate Dean (Medical Education).

DEPARTMENT OF EXPERIMENTAL MEDICINE

General Statement

The Department offers courses leading to the M.Sc. and Ph.D. degrees in the Faculty of Graduate Studies and Research and provides research facilities for these students or for other persons proceeding to graduate degrees, diplomas or for other qualified individuals.

Students may work in the laboratories of their supervisors who will be staff members of the Department of Experimental Medicine.

Students holding the M.D. degree or its equivalent may be registered for a degree provided that their standing is acceptable. Students holding the B.Sc. degree may register provided that their standing is acceptable. The latter will be required to complete a programme equivalent to that which they would undertake if registered in a basic science department. (See page D2 of the Faculty of Graduate Studies and Research Calendar for further details.)

The Ph.D. candidate will be required to translate, with the aid of a dictionary, from one language only other than English. The language chosen should be French or German, or Russian.

In the session 1969-70 the Department of Investigative Medicine will be merged with the Department of Experimental Medicine. Students registered in the Department of Investigative Medicine at that time will continue their studies and when they graduate will do so from the Department of Experimental Medicine. The Fall Convocation (1969) will be the last one at which students will graduate from the Department of Investigative Medicine.

Those students who are presently registered in the Department of Investigative Medicine will not be required to fulfil the Ph.D. Language requirement of the Department of Experimental Medicine, but those registered for the first time in the session 1968-69 and thereafter will be required to do so.

COURSES OFFERED FOR HIGHER DEGREES

601. Seminar.

1 hour.

602. Advanced Endocrinology - Steroid Hormones.

603. Advanced Endocrinology — Nitrogen Containing Hormones.

3 hours.

Courses 602 and 603 are given together.

604. Clinical Endocrinology.

1 hour.

605. Physiopathology.

1 hour.

606. Principles and Methods of Clinical Investigation.

SCHEDULED GRADUATE SEMINARS

The Royal Victoria Hospital (1 hour per week).

607. Cardio-Respiratory Research.

608. Immunopathology Research.

609. Endocrinology and Metabolism.

- 610. Haematology Research.
- 611. Renal and Electrolyte Seminar.
- 612. Renal Transplant Seminar.
- 613. Gastroenterology Conference.
- 614. Diabetes Conference.
- 615. Chest-Cardiac Disease Conference.
- 616. Clinical Endocrinology Conference.
- 617. Steroid Biochemistry Research.
- 618. Haematology Clinical Conference.
- 619. Endocrinology and Metabolism Research Conference.
- 620. Clinical Immunology Conference.
- 621. Arthritis Conference.
- 622. Internal Medicine.
- 623. Combined RVH-MGH Research Conferences Endocrinology.
- 624. University Clinic Seminar.
- 625. Pulmonary Conference.

The Montreal General Hospital (1 hour per week, or in some cases alternate week).

- 631. Gastroenterology Conference.
- 632. Respiratory Diseases.
- 633. Dermatology.
- 634. Internal Medicine.
- Allergy and Immunology. 635.
- 636. Infectious Diseases.
- 637. Combined Staff Conference.
- 638. Haematology.
- 639. Arthritis.
- 640. Metabolic Diseases.
- 641. Cardiac Disease.
- 642. Renal Disease.
- 643. Neurology Neurosurgery.
- 644. University Medical Clinic Conference.

Department of Investigative Medicine: See Department of Experimental Medicine.

The following are courses which might be considered useful for M.Sc. and Ph.D. candidates in Experimental Medicine. Decisions as to course requirements will usually be made jointly by research supervisors and the Chairman of the Department via the Advisory Committee of the Department.

BIOCHEMISTRY

301. Outline of Biochemistry (Full course).

Professor Hosein

Prerequisites: Chemistry 252 plus 292c, preferably, or Chemistry 202; Physiology 211 (may be taken concurrently). (Zoology 222 or Botany 201a plus 202b may be substituted for Physiology 211.)

402. Special Topics in Biochemistry (Full course).

3 hours lectures. Professors Elliott, Harpur, and others
Prerequisites: Chemistry 302 Biochemistry 301 (unless Biochemistry 481 is

Prerequisites: Chemistry 302, Biochemistry 301 (unless Biochemistry 481 is taken concurrently). Biochemistry 407 must be taken concurrently by students who take Biochemistry as a continuation or major subject.

502. Carbohydrates.

2 hours. Professor Rubinstein and Staff (25 people)

503. Nucleic Acids and Related Substances.

2 hours Professor Spencer and Staff (25 people)

504. Lipids and Special Topics.

2 hours. Professor Rubinstein and Staff (25 people)

STATISTICS

Biometry 031. (Full course.)

2 hours lecture and 3 hours laboratory. Professor Stanley

Prerequisites: Biology 100 and Mathematics 111.

Selected students may be eligible for a course in Statistics offered by the Department of Epidemiology.

PHYSICS

Physics 110. Mechanics, Heat, and Sound.

2 hours. Professors Marshall and Stansbury; Mr. Slattery

Corequisite: Mathematics 114 or 115.

Further Physics courses can be arranged in consultation with the Research Director and the Advisory Committee.

MATHEMATICS

Mathematics 114. Elementary Calculus.

3 hours.

Professor Taylor and Staff

Mathematics 214. Further Calculus.

3 hours.

Professor Herschorn and Staff

Prerequisite: Mathematics 114 or 115.

Where deemed necessary after consultation with Research Director and the Advisory Committee.

CHEMISTRY

Physical Chemistry 203. (Introductory) (Full course).

2 lectures and 1 tutorial Professors Eisenberg, Gilson, and Patterson Prerequisites: Chemistry 100 or 110, Physics 100 or their equivalent and Mathematics 114 or equivalent, which may be taken concurrently.

456A. Radiochemistry. Subject to space limitations.

Further Chemistry courses may be arranged in consultation with the Research Director and the Advisory Committee.

CELL STRUCTURE

Genetics 450c. The Interpretation of Ultrastructure.

Both terms: 1 hour lecture; 2 hours laboratory or seminar alternate weeks. Professor Sarah Gibbs

Prerequisites: Genetics 331a or Zoology 321, Biochemistry 301 or Botany 201a (Biochemistry 301 may be taken concurrently).

PHYSICAL-CHEMICAL METHODS

Chemistry 457b. Subject to space limitations.

Physiology 453. Physiological Instrumentation (Full course).

Professor Sekelj and Mr. Pengelly 2 hours and 3 hours laboratory. Prerequisites: Physiology 311, Physics 201a and 202b.

PHYSIOLOGY

211. Introductory Physiology (Full course) for non MD Graduate students. Professor Terroux First term: 3 hours lectures.

20

Second term: 2 hours lectures.

Laboratories, 3 hours every second week, both terms.

Prerequisites: Physics 100, Chemistry 100, Biology 100, Chemistry 202 or 252 and Zoology 211. The last two courses may be taken concurrently with Physiology 211.

311. Intermediate Physiology (Full course) for non MD graduate students. Professor Polosa and Staff Prerequisites: Physiology 211, Biochemistry 301. Biochemistry 301 may be taken concurrently.

352. Experimental Physiology (Full course) for non MD graduate students. Professor Polosa and Staff 2 hours and 3 hours laboratory.

Prerequisites: Physiology 311, which may be taken concurrently.

Required of all Third year Honours students; open to general students with the instructors' consent.

Other courses in advanced physiology may be taken if deemed necessary after consultation with the Research Director and the Advisory Committee.

COMPUTER SCIENCE

Summer course offered by the Computer Centre — no credit. Prerequisites: Mathematics 247a and 247b.

ADVANCED ENDOCRINOLOGY

Experimental Medicine 602. (Formerly Investigative Medicine 602); steroid hormone course - chemistry, biosynthesis, metabolism, etc.

3 hours lectures, September-December.

Experimental Medicine 603. (Formerly Investigative Medicine 603); nitrogencontaining hormones.

3 hours lectures, January-April.

DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

Professors — R. W. REED (Chairman), G. G. KALZ, L. SPENCE, J. W. STEVENSON, S. I. VAS.

Associate Professors — C. A. Butas, E. C. S. Chan, P. M. Cooke, D. S. Fleming, L. Kapica, B. H. Matheson, G. Webster, W. Yaphe.

Assistant Professors — H. Abramovitch, B. G. Carter, P. Gill, E. Mankiewicz, A. M. Masson, F. Prissick, H. G. Robson.

Lecturers — W. DION, P. EDWARDS, S. NOMMIK, R. SILOV, E. WOOD.

Demonstrator — C. Shaw.

All lectures and laboratory periods are held in the Pathological Institute.

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

20. Medical Microbiology.

Second year. This course deals with the general principles of medical microbiology and immunology. Both lectures and laboratory are concerned with the anatomy and physiology of infectious agents, theories of infection and immunity and a systematic study of bacteria, viruses, rickettseae, fungi and parasites pathogenic to man.

Text: Davis, Dulbecco, Eison, Ginsberg, Wood, Microbiology, 1st Ed. 1967, Pub: Hoeber Medical Division Harper & Row.

25. Dental Microbiology.

OTHER COURSES

The Department offers a range of courses leading to the Honours B.Sc. in Microbiology and is well-equipped for graduate research leading to the M.Sc. and Ph.D. degrees. Training in clinical microbiology is available in the service laboratories of the Royal Victoria Hospital and the Montreal Neurological Institute located in the Department.

See the *Announcements* of the Faculty of Arts and Science and the Faculty of Graduate Studies and Research.

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

Professor of Neurology and Neurosurgery — Theodore Rasmussen (Chairman).

Professors, Neurology — Francis McNaughton, Preston Robb.

W. V. Cone Professor of Neurosurgery — WILLIAM FEINDEL.

Professor, Clinical Neurophysiology — PIERRE GLOOR.

Associate Professors, Neurology — D. W. BAXTER, D. L. LLOYD-SMITH.

Associate Professors, Neurosurgery — Gilles Bertrand, Joseph Stratford, John Blundell.

Associate Professor, Neurological Radiology — ROMEO ETHIER.

Associate Professor, Neuropathology — Gordon Mathieson.
Associate Professor, Neurochemistry — Leonhard Wolfe.

Associate Professor, Clinical Psychology — Brenda MILNER. Assistant Professors, Neurology - Albert Aguayo, Frederick Andermann, J. B. R. Cosgrove, Bernard Graham, Irving Heller, George Karpati,

ALLAN SHERWN, W. F. T. TATLOW.

Assistant Professors, Neurosurgery - HAROLD ELLIOTT, ROBERT FORD, HENRY GARRETSON, FRANCIS LEBLANC.

Assistant Professors, Neurological Radiology — JEAN VEZINA, DENIS MELANÇON.

Assistant Professor, Neurochemistry — HANNA PAPPIUS.

Assistant Professor, Neuroisotope — Y. Lucas Yamamoto.

Assistant Professor, Neuropathology — STIRLING CARPENTER.

Assistant Professor, Clinical Neurophysiology - Andrew Eisen.

Assistant Professor, Neuroelectronics - RALPH JELL.

Lecturers, Neurology - Morrison Finlayson, Danilo Guzman.

Lecturer, Clinical Neurophysiology — ISRAEL LIBMAN.

Assistant Professors, Neuroanatomy — Jacques Courville, Allan Morton. Demonstrators, Neurology - A. ANZARUT, R. BISSONDOYAL, G. ERBA,

M. JOUBERT, M. LECHTER, G. PATRY, J. WOODS.

Demonstrators, Neurosurgery - S. Ambhanwong, G. Mathews, C. NEEDHAM.

Demonstrator, Electroencephalography — Lewis Henderson.

Fellows of the Montreal Neurological Institute — S. Ambhanwong,

A. ANZARUT, J. ARMSTRONG, R. BISSONDOYAL, J. BULCKE, J. CALLAHAN,

T-Y. CHIANG, G. CHONG, J. CLARKE, P. CORSI, A. DAVID, C. DILA, Z. ELAZAR, G. ERBA, O. ESPINAS, H. FEWER, P. FRAGATOS, D. GRIMES,

R. HOLLENBERG, M. JOUBERT, M. KHAN, P. KHARE, B. KRYSZTOFIAK,

H. Laurelli, M. Lechter, G. Mathews, J. Mitra, V. Montpetit,

S. Myles, J. Nabwangu, B. Nangia, C. Needham, J. Norris, S. Nutik, A. OLIVIER, C. ORIMALADE, C. PACE-ASCIAK, G. PATRY, J.-M. PEYRONNARD,

L. PRESCOTT, L. RENAUD, R. ROMERO, R. SIDHU, D. SKUCE, J. SPIRE,

L. STERN, Y. USHIO, K. WAYNE, J. WOODS.

SECOND YEAR

2A Introduction to the Central Nervous System. Combined course given by the Departments of Anatomy, Neurology and Neurosurgery, Physiology and Psychology. Lectures, laboratory work and clinical demonstrations during the second and third terms.

Professors McNaughton, Gloor, Courville and Staff 2B Instruction in Clinical Examination of the Nervous System. Given in conjunction with the Department of Medicine in the third term. (Course II 2)

2C Neuropathology. Given in conjunction with the Department of Pathology. Professors Mathieson and Carpenter

THIRD YEAR

3A Clerkship in Neurology and Neurosurgery. Five afternoons per week for three weeks, at the Montreal Neurological Institute and the Montreal General Hospital.

Professors Rasmussen, Robb, McNaughton, Baxter and Staff 3B Clinics and Conferences in Conjunction with the Departments of Medicine and Surgery.

FOURTH YEAR

Clinics and Conferences in Conjunction with the Departments of Medicine and Surgery.

ELECTIVE PROGRAMME

Ten week periods of clinical clerkship or supervised research in one of the Neurosciences for Second, Third and Fourth year medical students. Consult *Elective Catalogue* for details.

GRADUATE ELECTIVE COURSES

Neuroanatomy.

- **600.** This course is given in combination with course 2A "Introduction to the Central Nervous System."
 - 601. Additional graduate seminars will be held co-ordinated with Course 611.
 - 602. Preparation of a term paper on a neuroanatomical subject as arranged.
 - 603. Advanced Neuroanatomy for selected group; times to be arranged.

 Professors Courville and McNaughton

Neurophysiology.

- 610. Lectures and examination together with undergraduate course Neurology and Neurosurgery 2A "Introduction to the Central Nervous System."
- 611. Weekly seminars and demonstrations co-ordinated with Courses 2A and 601 (four months, beginning in January). Mondays, 4:30 to 6:00 p.m.
- 612. Under exceptional circumstances, a paper on a neurophysiological subject may be written by special arrangement as a substitute for 610.

Professors Gloor and Wolfe

620. Colloquium in Clinical Neurology.

1 hour weekly, clinics and lectures, Wednesdays, 5:00 p.m. M.N.I. (9 months).

Staff and Visiting Lecturers

630. Seizure Mechanisms and Cerebral Localization: Clinical Electroencephalographic, and Roentgenographic Conference.

Alternate Thursdays, 4:00 to 5:00 p.m.

Professors Rasmussen, Gloor, Ethier and Milner

Neurochemistry.

640. Outline of Neurochemistry

Instruction in Neurochemistry in addition to that provided in course B-2 may be obtained by special arrangement.

Professor Wolfe

Neuropathology.

- 650. Six or twelve months laboratory work in Neuropathology.
- 651. Conference in Neuropathology, alternate Thursdays, 4 to 5 p.m.

 Professors Mathieson and Carpenter
- 652. Introduction to Histopathology of the Nervous System. A short basic course for a limited number. By special arrangement with Professor Mathieson.

For graduate credit, courses 650 and 651 are required. Under special circumstances written and/or oral examinations may be substituted for 650 and 652.

Neurological Radiology.

660. Six or twelve months practical instruction in techniques and interpretation.

661. Neuroradiology Seminar — Mondays, 5-6 p.m., September-December.

Professors Ethier, Vezina and Melançon

Electroencephalography.

670. Laboratory work in Electroencephalography (minimum of six months with active participation, seminars and conferences).

671. Lecture series and conferences in Electroencephalography. Fridays, 4:30-6:00 p.m., October and November, January and February.

Professors Gloor, Lloyd-Smith, Broughton and Andermann

Neuropsychology

680. Training in research methods for selected graduate students.

*Professor B. Milner**

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Diploma in Neurology (Dip. Neurol.)

Minimum prerequisites for entry to the Diploma Programme in Neurology are a degree from an approved medical college or school and one year's interneship in an approved hospital.

Applications for admission should be addressed to the Chairman, Department

of Neurology and Neurosurgery, McGill University.

The programme is of four years' duration and consists of the following units:

- A. One year of work in one of the related basic sciences, such as neuro-pathology, neurophysiology (including E.E.G.), neuroanatomy, neurochemistry, neuroradiology, endocrinology, etc. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery, or in some other department of McGill University on the recommendation of the Chief of the Service and with the approval of the Chairman of the Department of Neurology and Neurosurgery. Preparation of a thesis or a paper approved for submission for publication by the Laboratory Chief and the Professor of Neurology and Neurosurgery (Dr. Rasmussen), will be required. This year may be used for work towards the M.Sc. degree in the Faculty of Graduate Studies and Research of McGill University (see the Announcement of the Faculty of Graduate Studies and Research for requirements and registration procedure).
- B. Six months in psychiatry in the Department of Psychiatry at McGill University. (Note: Under special circumstances the candidates may substitute six months in the Department of Psychiatry in some other accredited hospital or university or additional training in neurology or medicine.)
- C. Six months in neurosurgery at the Montreal Neurological Institute. (Note: Under special circumstances a candidate may substitute neurosurgical training received in the neurosurgical department of some other accredited hospital or university or additional training in neurology or medicine.)
- D. Two years in clinical neurology, one of which must be at the Montreal Neurological Institute. The other year may be taken at other neurological centres with the approval of the Professor of Neurology and Neurosurgery and on recommendation of the Chief of the Neurological Service.

Before receiving the Diploma the candidate must successfully pass an oral

examination in clinical neurology and neurosurgery.

Further information may be obtained by writing the Chairman, Department of Neurology and Neurosurgery, McGill University.

Diploma in Neurosurgery (Dip. Neurol. Surg.)

Minimum prerequisites for entry to the Diploma Programme in Neurosurgery are a degree from an approved medical college or school and one year's interneship in an approved hospital.

Applications should be addressed to the Chairman, Department of Neurology

and Neurosurgery, McGill University.

The programme is of four years' duration and consists of the following units:

- A. One year of work in one of the related basic sciences, such as neuropathology, neurophysiology (including E.E.G.), neuroanatomy, neuroradiology, endocrinology, etc. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery, or in some other department of McGill University on the recommendation of the Chief of the Service and with the approval of the Chairman of the Department of Neurology and Neurosurgery. Preparation of a thesis or a paper approved for submission for publication by the Laboratory Chief and the Professor of Neurology and Neurosurgery (Dr. Rasmussen), will be required. This year may be used for work towards the M.Sc. degree in the Faculty of Graduate Studies and Research of McGill University (see Announcement of the Faculty of Graduate Studies and Research for requirements and registration procedure).
- B. Six months in clinical neurology at the Montreal Neurological Institute. (Note: Under special circumstances, credit for six months of clinical neurology in some other accredited hospital or university department of neurology or additional training in surgery, medicine or neurological surgery may be accepted.)
- C. Two and a half years in clinical neurosurgery at the Montreal Neurological Institute and associated hospitals.

Note: Unit C, and either Unit A or B must be carried out at the Montreal Neurological Institute.

Before receiving the Diploma the candidate must successfully pass a final oral examination on clinical neurology and neurosurgery.

Further information may be obtained by writing the Chairman, Department of Neurology and Neurosurgery, McGill University.

Far graduate courses in neurology and neurosurgery, see also the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

Professors — G. B. MAUGHAN (Chairman), R. A. H. KINCH, J. P. A. LATOUR.

Associate Professors — W. R. FOOTE, M. HENDELMAN, T. PRIMROSE, F. J. TWEEDIE, M. H. VINCENT-YOUNG.

Assistant Professors — P. R. BLAHEY, H. B. BOURNE, J. L. MACARTHUR, E. A. MACCALLUM, HARRY OXORN, J. H. ROUTLEDGE, D. W. SPARLING, R. H. USHER.

Lecturers — G. H. Arronet, J. R. Dodds, Grace Donnelly, W. D. Fraser, Simon Gold, Jr., R. M. Parsons, T. N. Roman.

Demonstrators — N. J. Buka, J. E. Coffey, C. C. Lindsay, J. R. O'Brien, R. M. H. Power, Jr., L. D. Rhea, A. Asswad, P. D. Desjardins.

Sr. Teaching Administrative Assistants — P. D. DESJARDINS, R. M. CAPLAN, E. C. TUCKER.

Undergraduate Programme

The course is designed to impart a fundamental knowledge, in theory and practice, of the processes of human parturition and gynaecology. The student is introduced to the subject in the First year. In Second year during the winter term, four full mornings are devoted to obstetrics and gynaecologic history taking, clinical and laboratory techniques for diagnosis as part of the integrated Clinical Diagnosis Course.

Thereafter in both the Third and Fourth years, intensive teaching is carried out using to the full the facilities of the Royal Victoria Montreal Maternity Hospital, the Montreal General Hospital and the Catherine Booth Hospital.

Required Courses

FIRST YEAR

Twenty-one hours are devoted during the final quarter of the First year to a co-ordinated intensive introduction to human reproductive biology, using as a model concurrent studies in the fields of embryology, anatomy and the particular biochemical and endocrine aspects of the subject. The course closes with a description of the physiology of pregnancy and labour. This course amplifies and defines those aspects of the Behavioural Sciences concerning reproduction which are taken during the same teaching term.

SECOND YEAR

During this year the student is introduced to the clinical diagnosis of the female patient as part of the Introduction to Clinical Sciences Programme.

THIRD YEAR

The practical application and core knowledge of obstetrics and gynaecology is emphasized in six week block teaching of small groups of students. Both Royal Victoria and Montreal General Hospitals participate equally in this work. Written, oral and practical examinations are given during and at the end of this phase and a passing grade is required before the student proceeds to the Fourth year.

FOURTH YEAR

During 4½ week periods in either of the teaching hospitals students "live in" and participate fully as clinical clerks in all phases of the research, investigative and specialized work of the departments. Following the prepared programme ensures that the student will proceed to his final oral examinations exposed to all phases of obstetrics and gynaecology.

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

Textbooks: N. J. Eastman and L. M. Hellman, Obstetrics (Appleton); Jeffcoate, Principles of Gynaecology (Butterworth); Ralph C. Benson, Handbook of Obstetrics and Gynaecology.

Ancillary Reading: (1) Harry Oxorn and W. R. Foote, Human Labour and Birth (Appleton 1967). (2) Danforth, Textbook of Obstetrics and Gynaecology (Harper & Row).

Graduate Programme

The Department of Obstetrics and Gynaecology directs a five-year graduate programme involving residency training in a number of English-speaking hospitals in Montreal, with lectures and seminars in both pre-clinical and clinical fields and opportunities for research. Minimum prerequisites for entry into this programme are a degree from an approved Medical College or School, one year's rotating interneship and one year of Surgery or half a year each of Surgery and Medicine at the assistant residency level. Further information may be obtained by writing the Chairman, Department of Obstetrics and Gynaecology, McGill University.

DEPARTMENT OF OPHTHALMOLOGY

Professors of Ophthalmology — J. C. Locke (Chairman), John V. V. Nicholls.

Professor of Ophthalmology and Biochemistry — S. LERMAN.

Associate Professors - S. T. ADAMS, A. J. MCKINNA, WM. TURNBULL,

Assistant Professors — L. S. S. KIRSCHBERG, S. B. MURPHY, R. B. RAMSAY.

Lecturers — P. L. Davis, H. A. G. Duncan, J. A. Foreman, E. Gordon, A. B. Leith, J. G. Little, D. Lorenzetti, R. W. Pearman, P. Rosenbaum, H. Tanenbaum, K. R. Schirmer.

Undergraduate Courses

The undergraduate work in Ophthalmology is designed to meet the needs of a well-trained general practitioner and embraces the following courses:

SECOND YEAR

- 1. Routine Examination of the Eye. The various tests used in routine examination of the eye are demonstrated. Instruction in the use of ophthalmoscope is emphasized.
 - 5 hours.
 - 2. Pathology of the Eye.
 - 6 hours: two periods of 3 hours each.
- 3. Lectures to the Entire Class. A survey of the entire field designed to furnish a background of essential information for the clinical work.
 - 9 hours.

THIRD YEAR

- 1. Practical Ophthalmoscopy. Montreal General and Royal Victoria Hospitals.
 - 9 hours.

FOURTH YEAR

- 1. Practical Clinical Ophthalmology. Cases from the eye outpatient and indoor services are presented and discussed. Emphasis is on ocular problems that are of greatest moment in general practice.
 - 9 hours.

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate Elective Catalogue. Detailed information can be obtained from the Associate Dean (Medical Education).

Texts: Francis H. Adler, Textbook of Ophthalmology, 7th ed. (Saunders, 1962); J. H. Allen, May's Manual of the Diseases of the Eye, 23rd ed. (Williams & Wilkins, 1963); Sidney Lerman, Basic Ophthalmology (Blakiston Divn., McGraw-Hill, 1966).

References: W. S. Duke-Elder, System of Ophthalmology, 7 vols. (Kimpton, 1958-67); W. S. Duke-Elder, Textbook of Ophthalmology, 7 vols. (Mosby, 1932-54); Eugene Wolff, Anatomy of the Eye and Orbit (Blakiston, 1954); Eugene Wolff, Pathology of the Eye, 3rd ed. (Blakiston, 1951); Francis H. Adler, Physiology of the Eye, 4th ed. (Mosby, 1965).

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Graduate Programme

The Montreal General and Royal Victoria Hospitals each conduct graduate programmes of residency training, with rotations to the Montreal Children's Hospital. There is an integrated lecture course in the clinical and basic sciences of Ophthalmology. These programmes prepare candidates to meet the requirements for Fellowship of the Royal College of Surgeons of Canada and also the American Board of Ophthalmology. Detailed information may be obtained by writing the Ophthalmologist-in-Chief of each hospital.

DEPARTMENT OF OTOLARYNGOLOGY

Professor - H. E. McHugh (Chairman).

Associate Professors — D. G. Doehring, R. P. Gannon (Experimental Otolaryngology), E. John Smith.

Assistant Professor - R. H. McCoy.

Lecturers — G. Shimo, W. H. Novick, M. N. Levitt, M. Mendelsohn, A. Grossman, J. D. Baxter.

Demonstrators — A. COHEN, R. MACMILLAN, D. GREIG.

Undergraduate Courses

Instruction in Otolaryngology is given to students in the 1st, 2nd, 3rd and 4th years and is designed to cover the basic principles and clinical aspects of the specialty. Clinical courses are conducted on the Wards and in the Out-Patient Departments of the Royal Victoria Hospital and the Montreal General Hospital. As much as possible, demonstrations are carried out before small groups of students.

FIRST YEAR

An introductory course in clinical anatomy pertaining to the ear, nose and throat is presented during the First year. The emphasis is upon demonstration of normal anatomy and methods of physical examination.

SECOND YEAR

The academic year 1968-69 saw the introduction of a new course, "Introduction to the Clinical Sciences". The Department of Otolaryngology actively participates in this course, providing six hours of instruction in otolaryngological history taking and methods of physical examination. At the conclusion of these presentations, the student should be fully conversant with medical transcript as it pertains to Otolaryn-

gology, as well as with the instrumentation used in patient examination. Emphasis will not be placed upon ear, nose and throat disorders, as such, but rather upon the examination of the normal patient.

THIRD YEAR

"Block Time" clinical instruction is given to small groups of students formed into sessions of six mornings per group. In these sessions didactic lectures are given relating to ear, nose and throat disorders and the students are given the opportunity to conduct examination on hospital patients with demonstration of ear, nose and throat pathology as such.

FOURTH YEAR

Clinical clerkships will be introduced in the academic year 1969-1970. In the Department of Otolaryngology the student will be incorporated as a house officer during this period and thereby attend clinics, conduct patient examination under supervision, participate in ward rounds, weekly conferences and observe in the Operating Theatres. The students will be encouraged to make presentations during this "living in" period and openly discuss the current problems seen under these circumstances.

ELECTIVE OPPORTUNITIES

The Department of Otolaryngology offers elective opportunities to the 2nd, 3rd and 4th year medical students in both research and clinical divisions. With the introduction of the elective scheme in 1969 the Department of Otolaryngology will offer elective opportunities both in research and clinical studies to four students per quarter.

Graduate Programme

A residency training programme in Otolaryngology on the graduate level is conducted with rotation through the Royal Victoria, Montreal General and Montreal Children's Hospitals. This four year programme which includes one year of General Surgery is designed to prepare the candidate for the Certification and Fellowship examinations of the Royal College of Physicians and Surgeons of Canada and the examinations of the American Board of Otolaryngology. More detailed information may be obtained by writing to the Otolaryngologist-in-Chief, Royal Victoria Hospital, Montreal 2, Quebec.

A degree of M.Sc. in Otolaryngology is also available for students who have obtained their M.D. with appropriate prerequisites. More detailed information is available in the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF PAEDIATRICS

Professors — Mary Ellen Avery (Chairman), R. L. Denton, C. R. Scriver.

Associate Professors — K. N. Drummond, N. Eade, D. A. Hillman,
L. Stern.

Assistant Professors — P. Beaudry, H. R. Brodie, M. Belmonte, E. Colle, G. Collins, A. Eisen, J. E. Gibbons, R. Gourdeau, E. S. Hillman, G. H. Nickerson, J. H. O'Neil, R. Usher.

Lecturers — H. Brickman, D. G. Clogg, J. H. Elder, P. Fitzhardinge, F. C. Fraser, V. C. Goldbloom, E. Harpur, S. Pedvis, H. Surchin, W. W. Tidmarsh, M. B. Wise.

Demonstrators — T. A. COWAN, D. R. McCRIMMON, A. J. MARKUS, L. PINSKY, P. M. SÉNÉCAL, D. SCHIFF.

Required Courses

FIRST AND SECOND YEARS

Introduction to Paediatrics is provided by the Staff of the Department of Paediatrics in the Behaviour Course given to first year and in six lectures on Growth and Development presented in the last term of second year.

THIRD YEAR

Three weeks of clinical experience is provided at Montreal Children's Hospital focused primarily on Community & Developmental Paediatrics. Clinic and bedside paediatric problem-solving are presented by practising clinicians to small groups of students. Paediatric subspecialists and research personnel introduce the student to problems currently under investigation in the hospital. Training in the management of normal and abnormal newborn infants is provided in the nurseries of the Royal Vicotria and Catherine Booth Hospitals.

FOURTH YEAR

A 9 week clerkship in paediatrics as a member of a clinical ward service provides the opportunity for experience in the management of paediatric problems under supervision. In addition to regular ward rounds, clinical pathological conferences and grand rounds, the clinical clerks participate in a series of conferences structured to provide a review of the essentials of paediatrics.

ELECTIVES

Twenty major elective opportunities available to 2nd, 3rd and 4th year students include clinical and ambulatory paediatrics, paediatric subspecialties and paediatric research including biochemical genetics, endocrinology, neonatology, nephrology and cardio-respiratory investigation. Details of this programme are published in a separate Elective Catalogue. Further information can be obtained from the Associate Dean (Medical Education).

DEPARTMENT OF PATHOLOGY

Strathcona Professor - R. H. More (Chairman).

Professors - H. SHELDON, W. M. THURLBECK, F. W. WIGLESWORTH.

Associate Professors - D. S. KAHN, W. H. MATHEWS, G. MATHIESON,

M. J. PHILLIPS, W. J. PIROZYNSKI, G. RONA.

Assistant Professors — J. B. Blennerhassett, S. Carpenter, J. S. Fawcett, M. H. Finlayson, S. N. Huang, J. Knaack, J. P. Latour, S. H. Lee, K. G. Marshall, S. Moore, D. R. Murphy, M. R. Reesal,

P. SCHOPFLOCHER, M. A. SIMON, B. I. WEIGENSBERG.

Lecturers — J. Beland, J. O. Lough, H. C. Maneche, A. Rona. Demonstrators — G. Berry, F. Gomes, A. Hajdu, I. Kerner,

M. B. MACKENZIE, B. WOLANSKYJ.

REQUIRED UNDERGRADUATE COURSES

- Course in General Pathology (First year):
 - 100. Illustrated lectures during the Spring term totalling 36 hours. Professor More and Staff
 - 101. Practical laboratory classes during the Spring term totalling 72 hours.

2. Course in Special Pathology (Second year):

- 200. Illustrated lectures throughout the Second year totalling 72 hours.
- 201. Practical laboratory classes throughout the Second year totalling 72 hours.
 - 202. Group demonstrations throughout the Second year totalling 72 hours.

3. Course in Applied Pathology (Third and Fourth years):

300. Weekly clinico-pathological conferences throughout one section of the Third year totalling 18 hours.

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF PHARMACOLOGY AND THERAPEUTICS

- Professors M. Nickerson (Chairman), A. Beaulnes, D. Esplin, J. Lowenthal, K. I. Melville.
- Associate Professors B. G. Benfey, N. R. Eade, L. E. Francis, B. A. Kovacs, J. R. Ruedy.
- Assistant Professors B. Collier, E. M. Kovacs, R. I. Ogilvie, M. C. Robertson, A. Tenenhouse, J. M. Trifaro, D. R. Varma, B. Zablocka-Esplin.

Lecturer — H. E. SHISTER.

The objective of the courses in Pharmacology and Therapeutics is to provide an understanding of the properties and mechanisms of action of drugs as a basis for their use in therapy.

- 2. Pharmacological Principles. General survey of drug absorption, distribution, metabolism, excretion and mechanisms of action.
- 3. Pharmacology and Therapeutics. Systematic consideration of the pharmacodynamics of the more important groups of drugs, the factors which control and modify their actions, and the basis for selection and use of drugs in the treatment of disease.

ELECTIVES

Facilities are available for a limited number of students to undertake research in pharmacology in any year of their medical course or during the summer. Work in clinical pharmacology can also be arranged for students in the Third and Fourth years of the medical programme.

DEPARTMENT OF PHYSIOLOGY

Professors — D. V. Bates (Chairman), J. Q. Bliss, F. C. MacIntosh, G. Melvill Jones.

Associate Professors — R. I. BIRKS, T. M. S. CHANG, D. R. FIRTH, J. MILIC-EMILI, PAUL SEKELJ.

Assistant Professors — M. W. Cohen, R. F. P. Cronin, M. M. Frojmovic, P. Gold, W. S. Lapp, M. Levy, G. Mandl, C. Polosa, E. J. Reininger, A. Wechsler.

Lecturers - B. A. COOPER, R. P. GANNON.

Sessional Lecturers — J. H. DIRKS, E. J. HINCHEY, L. D. PENGELLY.

REQUIRED COURSES

FIRST YEAR

Human Physiology.

This is an integrated course of lectures, demonstrations and laboratory work covering the major fields of human physiology. Some emphasis is placed on the clinical implications of basic physiological principles.

Lectures and clinical demonstrations: Three hours a week.

Laboratory: Four hours a week.

SECOND YEAR

Anatomy and Physiology of the Central Nervous System.

Two hours lectures, two hours laboratory, and one hour demonstration a week, during the second term.

This is one course, given by the Departments of Anatomy, Neurology and Neurosurgery, and Physiology.

ELECTIVE COURSES

Research in Physiology. A limited number of students may take Physiology as an elective subject. These students will be given the opportunity of participating in departmental research projects. Summer employment in research laboratories is also available for a limited number of students.

OTHER COURSES

For other undergraduate courses in Faculty of Arts and Science, see the Announcement of that Faculty.

For graduate courses, see the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF PSYCHIATRY

Professors — R. A. Clehorn (Chairman), H. E. Lehmann, R. B. Malmo, A. E. Moll, H. B. M. Murphy, T. L. Sourkes, E. D. Wittkower.

Associate Professors — J. Aufreiter, M. K. Birmingham, H. Caplan, B. M. Cormier, T. E. Dancey, H. B. Durost, P. G. Edgell, B. Grad, V. A. Kral, H. Kravitz, E. P. Lester, D. J. Lewis, Z. J. Lipowski, J. G. Lohrenz, A. W. MacLeod, A. M. Mann, E. G. Poser, G. J. Sarwer-Foner, A. E. Schwartzman, M. Straker.

Assistant Professors - N. R. Aldous, F. G. Aufreiter, H. A. Azim,

F. AZIMA, T. A. BAN, S. BARZA, J. BEAUBIEN, C. G. BOS, C. CAHILL, C. H. CAHN, J. A. CORSON, J. CUMBERLAND, I. S. DISHER,

B. O. Dubrovsky, S. Z. Dudek, W. D. Engels, H. Grauer, N. Greenberg, D. P. Harris, E. S. Heath, L. G. Hisey, B. R. Hunt, L. A. Kerwood, E. Kingstone, D. C. Levin, E. D. Levinson, L. W. Levy, F. H. Lowy, F. Lundell, C. F. C. MacPherson, D. J. McClure, H. F. Muller, J. Naiman,

Y. NERMAN, G. PETERFY, D. PIVNICKI, R. H. PRINCE, M. S. RABINOVITCH, J. M. SENDBUEHLER, S. J. SHAMSIE, J. J. SIGAL, C. C. SMITH, L. SOLYOM, G. C. TAYLOR, G. TURCOT, J. R. UNWIN, N. R. WALSH, H. WARNES,

G. WEISS, S. WILNER.

Lecturers - K. S. ADAM, A. ALEXANDRIS, H. AST, J. R. BAYNE,

C. Benierakis, G. Berman, R. Bernick, S. Bikadoroff, P. J. M. Boutin,

C. DENIERAKIS, G. BERMAN, K. BERNICK, S. BIKADOROFF, F. J. M. BOUTIN, R. BOYER, J. CASSELMAN, G. CLERK, G. COUTU, L. DALLAIRE, H. DAVANLOO, J. M. DIVIC, R. B. FELDMAN, K. R. FERGUSON, B. A. GIBBARD, J. D. HACKETT, M. KENNEDY, H. KING, E. K. KORANYI, F. E. KRISTOF, S. LECKER, A. P. N. LEE, S. LEVIN, J. LEVY, J. MACKAY, G. J. MAGUIRE, A. F. MESZAROS, K. K. MINDE.

G. F. MORGENSTERN, R. C. MUIR, A. K. MULLER, J. M. PAIEMENT, E. J. PINTER, P. D. L. ROPER, E. ROSKIES, A. RUSSELL, L. SLOMAN, R. M. SMITH, L. G. STERN, B. TROSSMAN, L. VACAFLOR, N. WISEBORD.

Sessional Lecturer — B. SILVERMAN.

Demonstrators — M. Almudevar, L. Arbitman, J. Blustein, J. N. N. Carrière, C. Cohen, G. DaSilva, E. G. Debbane, H. A. Evans, S. GOLDSTEIN, G. GREGORIOU, E. IUTCOVITCH, M. KATZ, G. LAROCHELLE, H. MALMO, S. A. MARTIN, J. MONTPETIT, C. NOVELLA, E. H. PAKES, G. C. PATTON, I. REBNER, G. SCHNEIDERMAN, P. M. SEGAL, M. TURSKI, R. M. WINTROB.

REQUIRED UNDERGRADUATE COURSES

FIRST YEAR

Lectures and demonstrations - Behaviour, Growth and Development Course. An inter-departmental course is given throughout first year (see changes in medical curriculum).

It shows students the elements of behaviour in various settings, involutionary and developmental levels, both phylogenetic, individual, family and social.

Direction of this Course is shared with Paediatrics.

Total time — 120 hours.

SECOND YEAR

Lectures and Demonstrations - Behaviour, Growth and Development Course.

In the second quarter, Dr. H. E. Lehmann, and others, will present cases of psychiatric illness, and a brief series of lecture demostrations will show an integrated approach to major behavioural problems (12 hours); a final section on Drugs and Behaviour, given by Dr. N. R. Eade, Department of Pharmacology and Therapeutics, and others, will complete this course (6 hours).

Total time — 18 hours.

THIRD YEAR

Six weeks block teaching to acquaint students with the examination of patients and understanding of some of the major factors involved in abnormal behaviour. Diagnostic procedures, psychotherapeutic and physical methods of treatment, will be among the aspects covered. Students will be provided with tutors on a group basis and will also have more specialized training in the areas of child psychiatry, community psychiatry and mental disorders.

Professors Cleghorn, Moll, Dancey, Durost, Caplan, Silverman and Staffs

FOURTH YEAR

The teaching in this year will be largely focused on clerkship. Students will attend tutorials, ward rounds, seminars, conferences, etc., at the Allan Memorial Institute, Montreal General Hospital and Queen Mary Veterans' Hospital.

Professors Cleghorn, Moll, Dancey and Staffs

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ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate Elective Catalogue. Detailed information can be obtained from the Associate Dean (Medical Education).

Graduate Courses

DIPLOMA IN PSYCHIATRY (Dip. Psychiat.)

Minimum prerequisites for entry to the Diploma Programme in Psychiatry are a degree from an approved medical college or school and one year's rotating interneship in an approved hospital.

Applications for admission should be addressed to the Chairman, Department of Psychiatry, McGill University.

The programme is of four years' duration. Credit, not amounting to more than two years, may be given for study completed at other centres prior to enrolment at McGill University. In all instances, to qualify for the Diploma, the student must spend at least two years of graduate study in the Department of Psychiatry of McGill University in Montreal.

The Diploma Programme is organized to provide a comprehensive training for those preparing themselves for a career in the field of general psychiatry, and those who wish to proceed to specialized preparation in such fields as child, community, transcultural psychiatry, university teaching and research, or general hospital psychiatry with special emphasis upon psychosomatic work.

The first two years are devoted to establishing a fundamental knowledge of clinical conditions and of general therapeutic procedures. Special emphasis is laid upon psychopathology, psychodynamics and psychotherapy, and upon gaining experience in the full range of diagnostic and therapeutic procedures now in common use in psychiatry.

The last two years of the course provide considerable choice in courses and in training locations to meet the needs of those who wish special advanced experience in the special areas referred to above.

Increasing emphasis is now being placed upon research work. Students showing aptitude and inclination may spend a year either in the laboratories of the Allan Memorial Institute, or as a member of a field group, or on one of the clinical investigative teams at work in the various clinical teaching hospitals of McGill University.

Theoretical instruction and practical experience are closely and continuously integrated and the student is expected not only to participate in, but also to learn how best to use the major teaching procedures such as group therapy discussions, seminars, didactic lectures, case conferences, journal clubs, recorded interviews, as well as the one-way screen and movies.

Extensive use is made of the tutorial method of teaching, particularly in connection with psychotherapy. In each of the four years students are assigned to a tutor who is a member of the attending staff.

In addition to the training areas within the Department of Psychiatry, post-graduate students who have completed not less than two years' training may be assigned to the research teams and groups established in connection with the other clinical centres, where they work under the direction of a senior member of the research staff. Moreover, arrangements are possible with other departments within the University for periods of special study: for instance, with the Montreal Neurological Institute for special instruction and experience in neurology, or with the University Clinic of the Department of Internal Medicine for special advanced work in the psychosomatic field. At least six months' work in a mental hospital will be required.

Students are expected to have sufficient knowledge of English to participate adequately in seminar instruction and to benefit from their clinical experience.

Before receiving the Diploma the candidate must pass an examination during the Second year and again at the end of the Fourth year.

Further information may be obtained by writing the Chairman, Department of Psychiatry, McGill University.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE IN PSYCHIATRY

See the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF DIAGNOSTIC RADIOLOGY

Professors — J. S. DUNBAR (Chairman), R. G. FRASER.

Associate Professors — R. Ethier, G. H. Maguire, L. Rosenthall, D. J. Sieniewicz.

Assistant Professors — W. J. Alexander, R. A. Béique, W. P. Butt, F. A. Grainger, B. B. Hale, R. O. Hill, J. Kiss, F. R. MacDonald, D. Melancon, M. B. Nogrady, J. L. Vézina, R. E. Wilson.

Lecturers — F. M. Boston, J. H. Gagnon, J. D. Gibson, M. J. Herba, J. A. Kadish, M. E. Kadish.

Demonstrators — C. M. Cole, N. A. Khan, M. J. Molot, H. H. Rosmus.

Undergraduate Courses

FIRST YEAR

Normal Roentgen Anatomy in co-operation with the Department of Anatomy.

Professor Dunbar and Staff

THIRD YEAR

Clinical Diagnostic Radiology — a systematic exploration of radiologic evidence of disease; weekly conferences while the students are attending Internal Medicine and Surgery in the teaching hospitals.

Professors Dunbar, Fraser and Staff

FOURTH YEAR

Clinical Diagnostic Radiology continued in the programme initiated in the Third year while attending Internal Medicine and Surgery with the addition of Paediatrics.

Professors Dunbar, Fraser and Staff

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ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate Elective Catalogue. Detailed information can be obtained from the Associate Dean (Medical Education).

Graduate Courses

DIPLOMA IN DIAGNOSTIC RADIOLOGY

Minimum prerequisites: Degree from an approved medical faculty, college, or school; one year of general rotating interneship or its equivalent; appointment on the Resident Staff in Diagnostic Radiology in one of the teaching hospitals of this Faculty.

Required studies: Four years of postgraduate study in diagnostic radiology, including radiation physics an radiobiology, and in cognate fields, such as internal medicine, clinical surgery, or the basic sciences.

Advanced credit may be allowed for graduate study in diagnostic radiology or related fields in approved institutions or teaching hospitals elsewhere.

In addition to experience and training in general diagnostic radiology, in so far as possible arrangements will be made for the candidate to pursue studies in special fields, such as neuroradiology, paediatric radiology, and radioisotopes.

Both written and oral examinations are required.

The training programme in diagnostic radiology is fully accepted by the Royal College of Physicians and Surgeons of Canada and by the College of Physicians and Surgeons of the Province of Quebec for certification.

Further information may be obtained from the Chairman, Department of Diagnostic Radiology, McGill University.

DEPARTMENT OF THERAPEUTIC RADIOLOGY

Professor — JEAN BOUCHARD (Chairman). Associate Professors - M. N. LOUGHEED, C. J. POWEL-SMITH. Assistant Professors - P. A. FARRER, R. URTASUN. Lecturer — T. N. ROMAN. Lecturer in Physics — A. ROTENBERG. Demonstrators — C. GRAVELINE, G. DOYLE.

Undergraduate Courses

FIRST YEAR

Special participation in the teaching of Basic Sciences not intended.

SECOND YEAR

Introduction to Therapeutic Radiology, including the basic principles and applications of Radiation Physics, Radiobiology, and Radiopathology of conditions treated by means of ionizing radiation.

THIRD YEAR

- a) Teaching of Clinical Therapeutic Radiology to be integrated with the surgical and medical aspects of Oncology in the management of neoplastic diseases; the details of such to be worked out with the Departments of Internal Medicine and Surgery.
- b) Elective: Tutorial periods have been included with the list of electives from which students may select to come in Therapeutic Radiology and/or Nuclear Medicine in the latter part of their Third year.

FOURTH YEAR

Continuation of the clinical programme initiated in the Third year while attending Internal Medicine and Surgery.

Electives in Therapeutic Radiology or in Nuclear Medicine will be available and could be arranged in either of the two major teaching hospitals.

Graduate Courses

DIPLOMA IN THERAPEUTIC RADIOLOGY

Minimum prerequisites: Degree from an approved Medical Faculty, College or School; one year of general rotating interneship; appointment on the Resident Staff of the Departments of Therapeutic Radiology of one of the teaching hospitals recognized for the training in this specialty.

Required Studies: Four years of postgraduate study in Therapeutic Radiology or in Nuclear Medicine, including Radiation Physics, Radiobiology, and Pathology in one of the University accredited teaching hospitals for such specialty training.

Advanced credit may be allowed by the Departmental Committee for graduate study in Therapeutic Radiology or in Nuclear Medicine for time spent elsewhere in the chosen specialty, Internal Medicine, Clinical Surgery or Basic Sciences, providing that such training has been received in approved institutions but not in excess of two of the required four years.

In addition to a thorough grounding in general Therapeutic Radiology or in Nuclear Medicine, in so far as practicable, arrangements may be made for the candidate to pursue studies in a special aspect pertinent to his chosen specialty.

Residents training in Diagnostic Radiology will be welcome and suitable arrangements can be made if it is wished to obtain required training in Nuclear Medicine or even in Therapeutic Radiology.

Preparation of a scientific paper, under supervision of a member of the Faculty as co-author, is strongly recommended.

Both written and oral or clinical final examinations are required.

The didactic programme of the Diploma Course and the associated clinical studies and training are fully accepted for the specialist certification by the several qualifying bodies.

Further information may be obtained from the Chairman, Department of Therapeutic Radiology, McGill University.

MASTER OF SCIENCE (M.Sc.)

For information relative to the M.Sc. degree, see Announcement of the Faculty of Graduate Studies and Research or inquire of the Chairmen of the Departments.

DEPARTMENT OF SURGERY

- Professors LLOYD D. MACLEAN (Chairman), FRASER N. GURD, KENNETH J. MACKINNON, DAVID R. MURPHY, H. ROCKE ROBERTSON, ALAN G. THOMPSON.
- Associate Professors A. R. C. Dobell, J. A. Drummond, J. R. Gutelius, L. G. Hampson, E. J. Hinchey, R. C. Long, J. C. Luke, H. S. Morton, H. F. Moseley, H. F. Owen, J. D. Palmer, H. J. Scott, G. K. Wlodek, F. M. Woolhouse.
- Assistant Professors H. E. Beardmore, N. J. Belliveau, P. E. Blundell, W. M. Couper, A. C. Derby, J. C. Dickison, J. H. Duff, M. A. Entin, R. L. Estrada, I. W. D. Henderson, F. G. Inglis, A. F. Jones, G. M. Karn, R. N. Lawson, G. W. Lehman, D. T. Lin, A. P. H. McLean, E. D. Monaghan, J. R. Moore, D. D. Munro, David A. Murphy, W. L. Ogilvy, D. W. Ruddick, I. Shragovitch, E. J. Tabah.
- Lecturers A. N. Freedman, A. Hreno, R. R. Midgley, R. V. Moralejo, J. Morin, F. V. Nicholle, H. Shibata, H. B. Williams, J. A. S. Wilson.
- Demonstrators D. K. Black, L. Drake, L. J. Genender, P. Madore, K. G. McCulloch, G. J. Pearl, A. S. Popieraitis, H. H. Sigman, T. N. Siller, H. D. Stevens, W. McB. Wright.

DIVISION OF EXPERIMENTAL SURGERY

- Professors LLOYD D. MACLEAN (Chairman), FRASER N. GURD, DAVID R. MURPHY, H. ROCKE ROBERTSON, A. G. THOMPSON. Director, Division of Experimental Surgery LLOYD D. MACLEAN.
- Assistant Director GEORGE K. WLODEK.
 Associate Professor S. C. SKORYNA.
- Assistant Professors D. M. Edward, J. Gordon, H. F. Jeejeebhoy, C. A. Laurin, A. H. McArdle, S. Pitzele, I. Sakat, Y. Tanaka.

 Lecturers M. S. Chugtai, Anna M. Daniel, J. Rivilis, E. Sabbadini.

DIVISION OF ORTHOPAEDIC SURGERY

- Associate Professors R. L. Cruess, J. M. McIntyre, J. E. Miller, J. G. Petrie.
- Assistant Professors I. BITENC, N. MITCHELL, E. C. PERCEY, C. L. WILSON, W. E. WILSON.
- Lecturers A. A. Butler, H. F. Farfan, R. B. Gledhill, F. A. H. Greenwood, J. L. Shugar, R. G. Townsend.
- Demonstrators D. B. Forbes, G. R. Murphy, I. Yablon.

DIVISION OF UROLOGY

- Professor K. J. MACKINNON.
- Associate Professor E. C. REID.
- Assistant Professors *J. B. Dossetor, D. D. Morehouse, J. A. Oliver, Y. Taguchi.
- Lecturers I. J. DE DOMENICO, H. RABINOVITCH.
- Demonstrators C. F. D. Ackman, N. Halpern, W. F. Lingard, S. G. MacIsaac, T. Nearing.

^{*} Until July 1, 1969.

REQUIRED UNDERGRADUATE COURSES

SECOND YEAR

Surgical teaching begins in the Spring term (12 weeks) of the Second year. In this year special attention is directed to the instruction and training of the student in proper methods of physical examination from the surgical point of view. This instruction is part of the Introduction to Clinical Sciences Programme.

THIRD YEAR

The student comes into a more intimate contact with the patients, and in the surgical term of eight weeks is assigned cases, writes case reports, acts as dresser, and assists at operations. His clinical work is confined to one hospital — either the Montreal General Hospital or the Royal Victoria Hospital.

3A. Discussions concerning material covered in an assigned reading course will be held in the Montreal General and the Royal Victoria Hospitals one day each week.

3B. Group Ward Classes in the Montreal General and the Royal Victoria Hospitals, five times a week during the term.

3C. Case Reporting. Patients are allotted to students who act as reporters, dressers, and assistants at operations.

FOURTH YEAR

In the Final year the student spends eight weeks attached to the surgical service of a hospital. During four of these weeks the student is required to live in the hospital.

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

SURGICAL DISEASES OF CHILDREN

Some instruction in the surgical diseases of children is given during the trimester in which the students are assigned to paediatrics at the Montreal Children's Hospital as follows:

4A. Group Ward Classes three times a week throughout the trimester.

In their Final year students attend either the Shriners Hospital or the Montreal Children's Hospital for further instruction in paediatric surgery.

ORTHOPAEDIC SURGERY

Some lectures covering the basic principles of orthopaedic surgery are given in the Second year and members of the Orthopaedic Staffs of the Montreal General Hospital and Royal Victoria Hospital participate in the Second and Third year bedside clinics.

In the Final year seminars are conducted by members of the Orthopaedic Staff.

UROLOGY

In the Final year students are assigned to the Urological Services of the Montreal General Hospital and Royal Victoria Hospital for one week and, in addition to this, ward classes are held three times a week in each hospital.

Graduate Courses

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DIPLOMA IN UROLOGY (Dip. Urol.)

Minimum prerequisites for entry to the Diploma Programme in Urology are a degree from an approved Medical College or School, one year's rotating interneship in an approved hospital, and two years of training in general surgery or divided between general surgery and pathology or some other basic science.

Applications for admission should be addressed to the Chairman, Department of Surgery, McGill University.

The course is of three years' duration. The three years are spent as a member of the resident staff in the Department of Urology of the McGill University Teaching Hospitals. Throughout the three-year period, during the academic sessions, lectures or seminars are held one night each week. Through the co-operation of the Department of Medicine each candidate spends four months in the Renal Laboratory.

No examination is held. The Diploma is recommended on the satisfactory completion of the three year training programme.

For other graduate courses in Surgery, see the Announcement of the Faculty of Graduate Studies and Research.

BUILDINGS

THE MCINTYRE MEDICAL SCIENCES BUILDING

This building contains the Offices of Administration, the Medical Library, the Osler Library of the History of Medicine, the Departments of Biochemistry, History of Medicine, Pharmacology and Physiology and a number of special research units.

THE STRATHCONA MEDICAL BUILDING

This building contains the Department of Anatomy, the Department of Investigative Medicine and the Faculty of Dentistry.

THE PATHOLOGICAL INSTITUTE

This building was opened for use in October 1924. The construction of a seven-storey wing, completed in June 1966, provided a total area of approximately 140,000 square feet of laboratory and teaching facilities. The Institute is situated on the north-east corner of University Street and Pine Avenue adjacent to the Montreal Neurological Hospital and the Royal Victoria Hospital. It is occupied by the Departments of Microbiology and Immunology, of Epidemiology and Health, and of Pathology. The building has extensive facilities for teaching, research and diagnosis.

THE MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. The construction of the McConnell Wing, opened in 1953, approximately doubled both the clinical and laboratory space. With excellent equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neurosurgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine and the Montreal Neurological Hospital for the care of patients with organic diseases of the nervous system. In addition to wards, operating rooms, and laboratories for treatment and study of diseases of the nervous system, the building provides facilities for graduate study and research in the related fields of basic science.

THE ALLAN MEMORIAL INSTITUTE

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building was reconstructed to permit of the establishment of a fifty-bed unit, together with extensive research laboraories, and was officially opened July 12, 1944.

In 1946 the first day hospital in the world was opened at the Institute and in

1953 a fifty-bed wing was added.

In 1963 a research and training building was added by McGill University thus providing one of the most extensive and modern research areas.

Both undergraduate and postgraduate teaching are carried on at the Institute.

THE DONNER BUILDING

The Donner Building for Medical Research, adjacent to the Strathcona Medical Building, was completed in September 1948. Its erection was made possible through the generosity of William H. Donner of Philadelphia, the late founder of the international Cancer Research Foundation, who provided the funds necessary for the construction of a building entirely devoted to medical research. It has recently been renovated through the generous assistance of the Donner Foundation.

The building houses the Maxwell Lauterman Laboratories for Surgical Research and the Gastrointestinal Research Institute and also provides facilities for

many types of medical and surgical investigation.

HOSPITALS

The following hospitals and institutions are partly or completely affiliated to the Faculty:

Royal Victoria Hospital Montreal General Hospital Montreal Children's Hospital Oueen Mary Veterans' Hospital Douglas Hospital Royal Edward Chest Hospital Royal Victoria Montreal Maternity Hospital Montreal Neurological Hospital

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical Faculty. These affiliated hospitals contain over 6,000 beds.

The Royal Victoria Hospital comprises the following units under one administration:

The Main Building; The New Medical Wing; 2. The New Surgical Wing; 3.

The Ross Memorial Pavilion for private patients; 4.

The Women's Pavilion - Royal Victoria-Montreal Maternity; 5.

The Allan Memorial Institute.

The total bed complement is 1,018, with 115 bassinets. Admissions total over 24,000 and confinements are in excess of 3,800 a year. There are more than 125,000 visits annually to the Outpatient Department. The University Clinic was established in 1924 and has facilities for both clinical laboratory work and research.

Post-mortems are conducted in approximately 60 per cent of the deaths.

The number of resident physicians is 212.

The Montreal Neurological Hospital, consisting of the hospital activities of the Montreal Neurological Institute, is situated across the street from the Royal Victoria Hospital and constitutes the Department of Neurology and Neurosurgery for this hospital. There are 135 beds, including a paediatric unit, for the care and investigation of patients with organic diseases of the nervous system. There are approximately 2500 admissions yearly, about half to the Neurological Services and half to the Neurosurgical Services. Approximately 1100 surgical procedures are carried out each year.

The Montreal General Hospital has a bed complement of 904 for the treatment of acute diseases. In a typical year, there are approximately 20,000 admissions and 150,000 consultations in the Outpatient Department. The resident and interne staff numbers 130.

The "Montreal General" was founded in 1821; two smaller buildings downtown had preceded it in 1816 and 1819. In age, therefore, it is not the oldest hospital in Canada, but its record in clinical teaching is one of the longest on the North American continent.

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From the time the Hospital was opened, its staff began to arrange for students and, in 1823, they opened the first Medical School in Canada, the Montreal Medical Institution, with 25 students. Teaching was carried on partly at the Hospital. It was this School which agreed to form the Medical Faculty of McGill University in 1829; the beginning of a long and intimate association between the Hospital and the University.

The present buildings on Cedar Avenue were occupied in 1955.

The Montreal Children's Hospital has 367 beds (65% public beds), and, in a typical year, admits 12,000 patients. The attendance at its outdoor department totals over 136,000 clinic visits. This hospital admits all classes of cases of disease in children except pulmonary tuberculosis and the communicable diseases, and enables students to get a broad concept of paediatrics.

There are 235 autopsies in a typical year, representing 90% of all deaths. The number of resident physicians is 100.

Queen Mary Veterans' Hospital has 572 active treatment beds and 1,200 beds at Ste. Anne's Hospital, Ste. Anne de Bellevue for rehabilitation, geriatrics and psychiatry.

The hospital was taken over by the Department of Veterans Affairs in August 1946, with affiliations of consulting, attending and resident staff which were set up in collaboration with the Medical Schools of McGill University and l'Université de Montréal.

Admissions are over 7,500 a year and include not only veterans, but serving members of National Defence, Merchant Navy, Immigration, R.C.M.P., personnel returning from the Tropics, and groups from other Government Departments.

The outpatient attendance is approximately 100,000 annually and the post-mortem rate is about 85%.

Active treatment and research are maintained in all the usual fields and, in addition, there are special departments: Paraplegics, Plastic Reconstruction and Prosthetics (construction, alterations and fitting of artificial limbs).

The resident physician appointments number 74 and 6 of these rotate through Ste. Anne's Hospital.

All specialties, except Obstetrics and Paediatrics, are covered.

Douglas Hospital was opened in 1890. It is a psychiatric hospital for the treatment of emotional and mental diseases and with its 1,717 beds serves mainly the English-speaking communities of the Province of Quebec. There are also facilities for adolescent behaviour problems and children with mental disorders.

The hospital is directed by a private Board of Governors but admits non-paying patients on the basis of a contract with the Provincial Government. There are approximately 1,700 admissions per year and in the After Care Clinic about 2,000 patients are seen during the year.

The medical staff consists of 22 psychiatrists, 6 physicians and 22 psychiatric residents who are registered with the McGill Diploma Programme in post-graduate psychiatry; some 20 consultants in the various medical specialties also visit the

hospital regularly.

Third year undergraduate medical students of McGill University spend three weeks on the wards of the hospital as part of their psychiatric teaching. The hospital provides clinical instruction and training of nurses, nursing assistants, occupational therapists, psychologists and social workers, and field work experience for post-graduate training of professional personnel. An active research programme is carried on in the basic and clinical aspects of human behaviour.

The Royal Edward Chest Hospital has as its objectives the study, prevention and treatment of Tuberculosis and diseases of the chest. It operates on an Out-patient Department and In-patient basis. The Out-patient Department includes an Anti-Tuberculosis Dispensary and a Chest Clinic. The Hospital contains a 100-bed Non-Tuberculous Chest Condition Unit and a 24-bed Tuberculous Unit. Its facilities include Operating Rooms and Laboratories and it maintains an active research programme. Residency appointments number 10.

THE MEDICAL LIBRARY

Acting Medical Librarian - Mrs. Margaret Farmer.

The Medical Library is located on the second, third and fourth floors of the McIntyre Medical Sciences Building. The entrance to the Library is on the third floor, near the elevators. On this floor are found the circulation desk, the reference department, the catalogue, the book collection, part of the journal collection and the study rooms. The second and fourth floors hold mostly journals and additional seating. The Library offices are on the second floor.

The Library is open during the academic session from Monday to Friday, 8:30 a.m. to midnight; Saturday, 8:30 a.m. to 5 p.m.; and Sunday, 1 p.m. to 5 p.m. Effective June 15 to September the hours open are 8:30 a.m. to 5 p.m., Monday to

Friday; closed Saturday and Sunday.

The Library is for medical students, and for those students in other Faculties whose course-work requires the use of Medical Library material. The teaching staff of the whole University, and research workers and doctors in the city are entitled to use the library. An extensive photocopy and interlibrary loan service throughout

the country is maintained.

The chief value of the Library is in its periodical collection. Of 109,000 volumes held, over 84,000 are periodical volumes, and approximately 1,750 titles in many languages are currently received. The book collection is especially noteworthy in the ophthalmological section, due in large measure to many gifts from the late Dr. Casey A. Wood. There are also small libraries and collections of books and journals in departments of the Faculty.

Members of the Medical Library Advisory Committee are: Dr. R. Neil Mac-Donald, Chairman, Dr. G. A. Klassen, Dr. R. F. P. Cronin, Dr. Donald Bates, Mr. G. Crelinsten (Medical Student Representative), the Chief Librarian and the

Assistant Librarian.



THE OSLER LIBRARY OF THE HISTORY OF MEDICINE

The two-storey wing extending out from the third and fourth floors of the McIntyre Medical Sciences Building is the Osler Library and is entirely devoted to the medical-historical collection. Besides library offices and stack space, this Library consists of two reading rooms, the Wellcome Camera, accessible through the Main Reading area of the Medical Library on the third floor, and the Osler Room beyond the Camera.

The collection, consisting of about 25,000 volumes in the history of medicine and its sciences, has, as a nucleus, the 8,000 volumes bequeathed to McGill by one of its most famous pupils and teachers, Sir William Osler. It is especially this portion which is rich in 15th, 16th, 17th, and 18th century medical books. In addition, all books printed before 1850 have been transferred from the Medical Library to this collection. The rest of the collection has been purchased by the Osler Library itself, especially since 1957, a generous grant from the Wellcome Trust having made active growth of the Library possible. The Library is constantly adding to the collection, especially new books on the history of all aspects of medicine and medical people.

All books in the collection are available for use within the Library and the vast majority of them are loanable. Undergraduates and all interested persons may use the Library except as restricted by the attending Library staff. For the holdings of the Library, users are urged to consult the card catalogue, and the book catalogue entitled *Bibliotheca Osleriana*, both of which are in the Wellcome Camera. At present, the collection is not completely catalogued anywhere else in the University.

MEDICAL SOCIETIES

McGILL MEDICAL STUDENTS' SOCIETY

The Society is an association of all registered medical students. Acting through its Council, which is composed of elected and appointed student representatives, the Society performs two main functions:

- 1) to represent the medical student body in all its dealings with the Medical Faculty, and
 - 2) to regulate all Society affairs, e.g., Medical Ball, Banquet, Essay Competition.

In performing its first function, the Society leaders act as a liaison between faculty and students on all matters of mutual interest and concern. Recent items of mutual concern have been scheduling of Fourth year studies, hours of library operation, and the status of McGill medical students in the Province of Quebec.

The second main function involves the organization of the medical student extracurricular life as it exists. Besides sponsoring social functions, the Society publishes a quarterly journal, The McGill Medical Journal, which contains reports of student research and scholarly articles on many aspects of medicine. The Society also publishes a monthly Bulletin to inform students of current news and upcoming events, and an annual yearbook, The Speculum.

Active participation in Society affairs is one of the best ways of complementing the medical school experience.

ALPHA OMEGA ALPHA HONOUR MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate, and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic careers, have shown promise of development and have attained honour rank. They are eligible for election in the Third and Fourth years.

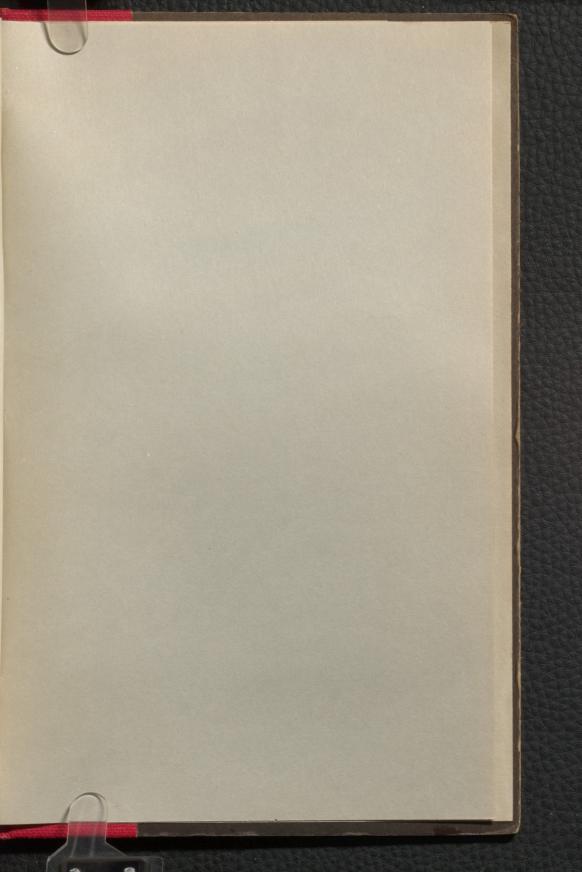
Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

OSLER SOCIETY

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The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes students from each class in the faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.



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